

APPENDIX A

PILOT STUDY SOIL SAMPLE LABORATORY RESULTS



Analytical Laboratory

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Order Summary Report

Order Number: J12090210

Customer Name(s): AMEC

Customer Address:

Lab Contact: Jason C Perkins **Phone:** 980-875-5348

**Report Authorized By:
(Signature)**


Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2012.09.26 15:16:06 -04'00'

Date: 9/26/2012

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2012019857	SPARTANBURG	07-Sep-12 1:20 PM	AMEC	490-6194 MW-6
2012019864	SPARTANBURG	07-Sep-12 2:00 PM	AMEC	490-6194 MW-5
2012019865	SPARTANBURG	07-Sep-12 2:40 PM	AMEC	490-6194 MW-4
3 Total Samples				

Technical Validation Review

Checklist:

- | | | |
|--|---|--|
| COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All Results are less than the laboratory reporting limits. | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| All laboratory QA/QC requirements are acceptable. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: Mary Ann Ogle

Date: 9/26/2012

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12090210

Site: 490-6194 MW-6
Collection Date: 07-Sep-12 1:20 PM

Sample #: 2012019857
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-6194 MW-5
Collection Date: 07-Sep-12 2:00 PM

Sample #: 2012019864
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-6194 MW-4
Collection Date: 07-Sep-12 2:40 PM

Sample #: 2012019865
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-6194-1
Client Project/Site: Pine Street MGP J12090210

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
9/26/2012 10:34:20 AM

Shali Brown
Project Manager I
shali.brown@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-6194-1	TPH-6	Solid	09/07/12 13:20	09/11/12 08:35
490-6194-2	VOC-6	Solid	09/07/12 13:20	09/11/12 08:35
490-6194-3	SVOC-6	Solid	09/07/12 13:20	09/11/12 08:35
490-6194-4	TPH-5	Solid	09/07/12 14:00	09/11/12 08:35
490-6194-5	VOC-5	Solid	09/07/12 14:00	09/11/12 08:35
490-6194-6	SVOC-5	Solid	09/07/12 14:00	09/11/12 08:35
490-6194-7	TPH-4	Solid	09/07/12 14:40	09/11/12 08:35
490-6194-8	VOC-4	Solid	09/07/12 14:40	09/11/12 08:35
490-6194-9	SVOC-4	Solid	09/07/12 14:40	09/11/12 08:35

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Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Job ID: 490-6194-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP J12090210

Report Number: 490-6194-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 09/11/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.1 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples VOC-6 (490-6194-2), VOC-5 (490-6194-5) and VOC-4 (490-6194-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 09/12/2012 and analyzed on 09/13/2012, 09/14/2012 and 09/18/2012.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 19868. See LCS/LCSD

4-Bromofluorobenzene (Surr) failed the surrogate recovery criteria high for VOC-4 (490-6194-8). Evidence of matrix interference is present.

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): VOC-5 (490-6194-5), VOC-4 (490-6194-8, VOC-6 (490-6194-2). Elevated reporting limits are provided.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)



Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Job ID: 490-6194-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Samples SVOC-6 (490-6194-3), SVOC-5 (490-6194-6) and SVOC-4 (490-6194-9) were analyzed for Semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/13/2012 and analyzed on 09/14/2012, 09/15/2012 and 09/16/2012.

Hexachlorocyclopentadiene failed the recovery criteria low for the MS of sample 490-6232-1 in batch 490-19725. Bis(2-chloroethyl)ether failed the recovery criteria high.

For the MSD of sample 490-6232-1 in batch 490-19725, Hexachlorocyclopentadiene failed the recovery criteria low. Bis(2-chloroethyl)ether and Bis(2-ethylhexyl) phthalate failed the recovery criteria high. Also, Bis(2-ethylhexyl) phthalate exceeded the rpd limit.

Samples SVOC-6 (490-6194-3)[10X], SVOC-6 (490-6194-3)[250X], SVOC-6 (490-6194-3)[5X], SVOC-6 (490-6194-3)[50X], SVOC-5 (490-6194-6)[10X], SVOC-5 (490-6194-6)[100X] and SVOC-4 (490-6194-9)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples TPH-6 (490-6194-1), TPH-5 (490-6194-4) and TPH-4 (490-6194-7) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015C - GRO. The samples were prepared on 09/12/2012 and analyzed on 09/18/2012.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples TPH-6 (490-6194-1), TPH-5 (490-6194-4) and TPH-4 (490-6194-7) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 09/13/2012 and analyzed on 09/16/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

o-Terphenyl (Surr) failed the surrogate recovery criteria low for TPH-6 (490-6194-1). o-Terphenyl (Surr) failed the surrogate recovery criteria low for TPH-5 (490-6194-4). Due to the level of dilution required for the following sample, surrogate recoveries are not reported. o-Terphenyl (Surr) failed the surrogate recovery criteria high for TPH-4 (490-6194-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015C: The following sample(s) contained a hydrocarbon pattern which most closely resembles the Motor oil pattern used by the laboratory for quantitative purposes: TPH-4 (490-6194-7), TPH-5 (490-6194-4), TPH-6 (490-6194-1).

Method(s) 8015C: The following sample(s) contained a hydrocarbon pattern which most closely resembles the Diesel Fuel #2 pattern used by the laboratory for quantitative purposes: TPH-4 (490-6194-7), TPH-5 (490-6194-4), TPH-6 (490-6194-1).

Samples TPH-6 (490-6194-1)[100X], TPH-6 (490-6194-1)[200X], TPH-5 (490-6194-4)[20X], TPH-5 (490-6194-4)[40X] and TPH-4 (490-6194-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples TPH-6 (490-6194-1), VOC-6 (490-6194-2), SVOC-6 (490-6194-3), TPH-5 (490-6194-4), VOC-5 (490-6194-5), SVOC-5 (490-6194-6), TPH-4 (490-6194-7), VOC-4 (490-6194-8) and SVOC-4 (490-6194-9) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 09/12/2012.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Job ID: 490-6194-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

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Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: TPH-6

Lab Sample ID: 490-6194-1

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 85.7

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	137		30.6	mg/Kg	☼	09/12/12 12:51	09/18/12 04:19	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	94		50 - 150			09/12/12 12:51	09/18/12 04:19	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	41500		2270	mg/Kg	☼	09/13/12 09:57	09/16/12 21:56	200
C24-C40	13800		1130	mg/Kg	☼	09/13/12 09:57	09/16/12 17:15	100
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	0	X	50 - 150			09/13/12 09:57	09/16/12 17:15	100

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-6

Lab Sample ID: 490-6194-2

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1,1-Trichloroethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1,2,2-Tetrachloroethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1,2-Trichloroethane	ND		4.83	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1-Dichloroethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Diisopropyl ether	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1-Dichloroethene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,1-Dichloropropene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2,3-Trichlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2,3-Trichloropropane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2,4-Trichlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2,4-Trimethylbenzene	118		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2-Dibromo-3-Chloropropane	ND		4.83	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2-Dibromoethane (EDB)	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2-Dichlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2-Dichloroethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,2-Dichloropropane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,3,5-Trimethylbenzene	41.9		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,3-Dichlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,3-Dichloropropane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
1,4-Dichlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
2,2-Dichloropropane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
2-Butanone (MEK)	ND		48.3	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
2-Chlorotoluene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
2-Hexanone	ND		48.3	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
4-Chlorotoluene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
4-Methyl-2-pentanone (MIBK)	ND		48.3	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Acetone	ND		48.3	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Benzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Bromobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Bromochloromethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Bromodichloromethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Bromoform	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Bromomethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Carbon disulfide	ND		4.83	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Carbon tetrachloride	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Chlorobenzene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Chlorodibromomethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Chloroethane	ND		4.83	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Chloroform	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Chloromethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
cis-1,2-Dichloroethene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
cis-1,3-Dichloropropene	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Dibromomethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Dichlorodifluoromethane	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Ethylbenzene	69.6		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Hexachlorobutadiene	ND		4.83	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Isopropylbenzene	14.2		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Methyl tert-butyl ether	ND		1.93	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Methylene Chloride	ND		9.66	mg/Kg	*	09/12/12 13:03	09/13/12 18:54	20
Naphthalene	2050		96.6	mg/Kg	*	09/12/12 13:03	09/14/12 14:56	400

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-6

Lab Sample ID: 490-6194-2

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	9.25		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
N-Propylbenzene	5.85		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
p-Isopropyltoluene	7.66		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
sec-Butylbenzene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Styrene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
tert-Butylbenzene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Tetrachloroethene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Toluene	22.1		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
trans-1,2-Dichloroethene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
trans-1,3-Dichloropropene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Trichloroethene	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Trichlorofluoromethane	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Vinyl chloride	ND		1.93	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20
Xylenes, Total	122		4.83	mg/Kg	☼	09/12/12 13:03	09/13/12 18:54	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130	09/12/12 13:03	09/13/12 18:54	20
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	09/12/12 13:03	09/14/12 14:56	400
4-Bromofluorobenzene (Surr)	94		70 - 130	09/12/12 13:03	09/13/12 18:54	20
4-Bromofluorobenzene (Surr)	98		70 - 130	09/12/12 13:03	09/14/12 14:56	400
Dibromofluoromethane (Surr)	89		70 - 130	09/12/12 13:03	09/13/12 18:54	20
Dibromofluoromethane (Surr)	92		70 - 130	09/12/12 13:03	09/14/12 14:56	400
Toluene-d8 (Surr)	98		70 - 130	09/12/12 13:03	09/13/12 18:54	20
Toluene-d8 (Surr)	98		70 - 130	09/12/12 13:03	09/14/12 14:56	400

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10	%			09/12/12 11:18	1
Percent Solids	89		0.10	%			09/12/12 11:18	1
Percent Solids	89		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-6

Lab Sample ID: 490-6194-3

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
1,2-Dichlorobenzene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
1,3-Dichlorobenzene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
1,4-Dichlorobenzene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
1-Methylnaphthalene	28.6		0.809	mg/Kg	☆	09/13/12 10:58	09/15/12 22:45	10
2,4,5-Trichlorophenol	ND		5.03	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,4,6-Trichlorophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,4-Dichlorophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,4-Dimethylphenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,4-Dinitrophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,4-Dinitrotoluene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2,6-Dinitrotoluene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Chloronaphthalene	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Chlorophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Methylnaphthalene	18.8		0.405	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Methylphenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Nitroaniline	ND		5.03	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
2-Nitrophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
3,3'-Dichlorobenzidine	ND		4.03	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
3 & 4 Methylphenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
3-Nitroaniline	ND		5.03	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4,6-Dinitro-2-methylphenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Bromophenyl phenyl ether	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Chloro-3-methylphenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Chlorophenyl phenyl ether	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Chloroaniline	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Nitroaniline	ND		5.03	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
4-Nitrophenol	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Acenaphthylene	30.1		0.809	mg/Kg	☆	09/13/12 10:58	09/15/12 22:45	10
Acenaphthene	46.3		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Benzo[a]anthracene	90.1		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Benzo[a]pyrene	87.2		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Benzo[b]fluoranthene	73.7		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Benzo[g,h,i]perylene	39.8		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Benzo[k]fluoranthene	54.3		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Anthracene	102		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Bis(2-chloroethoxy)methane	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Bis(2-chloroethyl)ether	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Bis(2-ethylhexyl) phthalate	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
bis (2-chloroisopropyl) ether	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Butyl benzyl phthalate	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Carbazole	3.22		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Chrysene	71.8		4.05	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Cresols	ND		4.02	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Dibenz(a,h)anthracene	13.4		0.405	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Dibenzofuran	57.9		20.1	mg/Kg	☆	09/13/12 10:58	09/15/12 23:08	50
Diethyl phthalate	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Dimethyl phthalate	ND		10.1	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Di-n-butyl phthalate	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Di-n-octyl phthalate	ND		2.01	mg/Kg	☆	09/13/12 10:58	09/14/12 04:05	5
Fluoranthene	275		20.2	mg/Kg	☆	09/13/12 10:58	09/16/12 15:57	250

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-6

Lab Sample ID: 490-6194-3

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	94.0		4.05	mg/Kg	☼	09/13/12 10:58	09/15/12 23:08	50
Hexachlorobenzene	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Hexachlorobutadiene	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Hexachlorocyclopentadiene	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Hexachloroethane	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Indeno[1,2,3-cd]pyrene	36.5		0.809	mg/Kg	☼	09/13/12 10:58	09/15/12 22:45	10
Isophorone	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Naphthalene	30.7		0.809	mg/Kg	☼	09/13/12 10:58	09/15/12 22:45	10
Nitrobenzene	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
N-Nitrosodi-n-propylamine	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
n-Nitrosodiphenylamine(as diphenylamine)	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Pentachlorophenol	ND		5.03	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Phenanthrene	284		20.2	mg/Kg	☼	09/13/12 10:58	09/16/12 15:57	250
Phenol	ND		2.01	mg/Kg	☼	09/13/12 10:58	09/14/12 04:05	5
Pyrene	189		4.05	mg/Kg	☼	09/13/12 10:58	09/15/12 23:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		10 - 120	09/13/12 10:58	09/14/12 04:05	5
2-Fluorobiphenyl (Surr)	58		29 - 120	09/13/12 10:58	09/14/12 04:05	5
2-Fluorophenol (Surr)	54		10 - 120	09/13/12 10:58	09/14/12 04:05	5
Nitrobenzene-d5 (Surr)	52		27 - 120	09/13/12 10:58	09/14/12 04:05	5
Phenol-d5 (Surr)	55		10 - 120	09/13/12 10:58	09/14/12 04:05	5
Terphenyl-d14 (Surr)	89		13 - 120	09/13/12 10:58	09/14/12 04:05	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10	%			09/12/12 11:18	1
Percent Solids	82		0.10	%			09/12/12 11:18	1
Percent Solids	82		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: TPH-5

Lab Sample ID: 490-6194-4

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 82.9

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	33.2		7.33	mg/Kg	☼	09/12/12 12:51	09/18/12 04:00	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	95		50 - 150			09/12/12 12:51	09/18/12 04:00	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2650		235	mg/Kg	☼	09/13/12 11:07	09/16/12 21:36	40
C24-C40	465		118	mg/Kg	☼	09/13/12 11:07	09/16/12 17:37	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	0	X	50 - 150			09/13/12 11:07	09/16/12 17:37	20

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10	%			09/12/12 11:18	1
Percent Solids	83		0.10	%			09/12/12 11:18	1
Percent Solids	83		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-5

Lab Sample ID: 490-6194-5

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,1,1-Trichloroethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,1,2,2-Tetrachloroethane	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,1,2-Trichloroethane	ND		0.00577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,1-Dichloroethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Diisopropyl ether	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,1-Dichloroethene	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,1-Dichloropropene	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,2,3-Trichlorobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2,3-Trichloropropane	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2,4-Trichlorobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2,4-Trimethylbenzene	4.57		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2-Dibromo-3-Chloropropane	ND		0.360	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2-Dibromoethane (EDB)	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,2-Dichlorobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,2-Dichloroethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,2-Dichloropropane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,3,5-Trimethylbenzene	1.49		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,3-Dichlorobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
1,3-Dichloropropane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
1,4-Dichlorobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
2,2-Dichloropropane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
2-Butanone (MEK)	ND		0.0577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
2-Chlorotoluene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
2-Hexanone	ND		0.0577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
4-Chlorotoluene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.0577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Acetone	ND		0.0577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Benzene	0.150		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Bromobenzene	ND		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
Bromochloromethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Bromodichloromethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Bromoform	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Bromomethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Carbon disulfide	ND		0.00577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Carbon tetrachloride	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Chlorobenzene	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Chlorodibromomethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Chloroethane	ND		0.00577	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Chloroform	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Chloromethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
cis-1,2-Dichloroethene	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
cis-1,3-Dichloropropene	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Dibromomethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Dichlorodifluoromethane	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Ethylbenzene	1.64		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
Hexachlorobutadiene	ND		0.360	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
Isopropylbenzene	0.468		0.144	mg/Kg	*	09/12/12 13:03	09/14/12 13:23	1
Methyl tert-butyl ether	ND		0.00231	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Methylene Chloride	ND		0.0115	mg/Kg	*	09/12/12 12:59	09/13/12 17:21	1
Naphthalene	45.6		3.60	mg/Kg	*	09/12/12 13:03	09/18/12 12:23	10

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-5

Lab Sample ID: 490-6194-5

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 79.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.144	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1
N-Propylbenzene	0.335		0.144	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1
p-Isopropyltoluene	0.413		0.144	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1
sec-Butylbenzene	ND		0.144	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1
Styrene	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
tert-Butylbenzene	ND		0.144	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1
Tetrachloroethene	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
Toluene	0.0110		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
trans-1,2-Dichloroethene	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
trans-1,3-Dichloropropene	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
Trichloroethene	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
Trichlorofluoromethane	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
Vinyl chloride	ND		0.00231	mg/Kg	☼	09/12/12 12:59	09/13/12 17:21	1
Xylenes, Total	1.69		0.360	mg/Kg	☼	09/12/12 13:03	09/14/12 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	09/12/12 12:59	09/13/12 17:21	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	09/12/12 13:03	09/14/12 13:23	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	09/12/12 13:03	09/18/12 12:23	10
4-Bromofluorobenzene (Surr)	112		70 - 130	09/12/12 12:59	09/13/12 17:21	1
4-Bromofluorobenzene (Surr)	91		70 - 130	09/12/12 13:03	09/14/12 13:23	1
4-Bromofluorobenzene (Surr)	102		70 - 130	09/12/12 13:03	09/18/12 12:23	10
Dibromofluoromethane (Surr)	97		70 - 130	09/12/12 12:59	09/13/12 17:21	1
Dibromofluoromethane (Surr)	89		70 - 130	09/12/12 13:03	09/14/12 13:23	1
Dibromofluoromethane (Surr)	100		70 - 130	09/12/12 13:03	09/18/12 12:23	10
Toluene-d8 (Surr)	114		70 - 130	09/12/12 12:59	09/13/12 17:21	1
Toluene-d8 (Surr)	99		70 - 130	09/12/12 13:03	09/14/12 13:23	1
Toluene-d8 (Surr)	99		70 - 130	09/12/12 13:03	09/18/12 12:23	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		0.10	%			09/12/12 11:18	1
Percent Solids	80		0.10	%			09/12/12 11:18	1
Percent Solids	80		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-5

Lab Sample ID: 490-6194-6

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
1,2-Dichlorobenzene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
1,3-Dichlorobenzene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
1,4-Dichlorobenzene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
1-Methylnaphthalene	130		8.41	mg/Kg	☆	09/13/12 10:58	09/15/12 23:53	100
2,4,5-Trichlorophenol	ND		1.05	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,4,6-Trichlorophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,4-Dichlorophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,4-Dimethylphenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,4-Dinitrophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,4-Dinitrotoluene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2,6-Dinitrotoluene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2-Chloronaphthalene	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2-Chlorophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2-Methylnaphthalene	114		8.41	mg/Kg	☆	09/13/12 10:58	09/15/12 23:53	100
2-Methylphenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2-Nitroaniline	ND		1.05	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
2-Nitrophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
3,3'-Dichlorobenzidine	ND		0.837	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
3 & 4 Methylphenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
3-Nitroaniline	ND		1.05	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4,6-Dinitro-2-methylphenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Bromophenyl phenyl ether	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Chloro-3-methylphenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Chlorophenyl phenyl ether	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Chloroaniline	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Nitroaniline	ND		1.05	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
4-Nitrophenol	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Acenaphthylene	3.92		0.0841	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Acenaphthene	54.5		8.41	mg/Kg	☆	09/13/12 10:58	09/15/12 23:53	100
Benzo[a]anthracene	9.15		0.841	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10
Benzo[a]pyrene	7.39		0.841	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10
Benzo[b]fluoranthene	3.18		0.0841	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Benzo[g,h,i]perylene	1.64		0.0841	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Benzo[k]fluoranthene	3.07		0.0841	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Anthracene	23.8		0.841	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10
Bis(2-chloroethoxy)methane	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Bis(2-chloroethyl)ether	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Bis(2-ethylhexyl) phthalate	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
bis (2-chloroisopropyl) ether	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Butyl benzyl phthalate	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Carbazole	2.01		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Chrysene	6.74		0.841	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10
Cresols	ND		0.836	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Dibenz(a,h)anthracene	0.552		0.0841	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Dibenzofuran	11.6		4.18	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10
Diethyl phthalate	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Dimethyl phthalate	ND		2.10	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Di-n-butyl phthalate	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Di-n-octyl phthalate	ND		0.418	mg/Kg	☆	09/13/12 10:58	09/14/12 04:28	1
Fluoranthene	23.0		0.841	mg/Kg	☆	09/13/12 10:58	09/15/12 23:31	10

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-5

Lab Sample ID: 490-6194-6

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 78.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	25.8		0.841	mg/Kg	☼	09/13/12 10:58	09/15/12 23:31	10
Hexachlorobenzene	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Hexachlorobutadiene	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Hexachlorocyclopentadiene	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Hexachloroethane	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Indeno[1,2,3-cd]pyrene	1.61		0.0841	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Isophorone	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Naphthalene	126		8.41	mg/Kg	☼	09/13/12 10:58	09/15/12 23:53	100
Nitrobenzene	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
N-Nitrosodi-n-propylamine	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Pentachlorophenol	ND		1.05	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Phenanthrene	90.9		8.41	mg/Kg	☼	09/13/12 10:58	09/15/12 23:53	100
Phenol	ND		0.418	mg/Kg	☼	09/13/12 10:58	09/14/12 04:28	1
Pyrene	29.2		0.841	mg/Kg	☼	09/13/12 10:58	09/15/12 23:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		10 - 120	09/13/12 10:58	09/14/12 04:28	1
2-Fluorobiphenyl (Surr)	51		29 - 120	09/13/12 10:58	09/14/12 04:28	1
2-Fluorophenol (Surr)	62		10 - 120	09/13/12 10:58	09/14/12 04:28	1
Nitrobenzene-d5 (Surr)	62		27 - 120	09/13/12 10:58	09/14/12 04:28	1
Phenol-d5 (Surr)	60		10 - 120	09/13/12 10:58	09/14/12 04:28	1
Terphenyl-d14 (Surr)	91		13 - 120	09/13/12 10:58	09/14/12 04:28	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10	%			09/12/12 11:18	1
Percent Solids	79		0.10	%			09/12/12 11:18	1
Percent Solids	79		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: TPH-4

Lab Sample ID: 490-6194-7

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 79.0

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	30.9		8.21	mg/Kg	☼	09/12/12 12:51	09/18/12 03:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	95		50 - 150			09/12/12 12:51	09/18/12 03:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1760		62.6	mg/Kg	☼	09/13/12 11:07	09/16/12 18:00	10
C24-C40	352		62.6	mg/Kg	☼	09/13/12 11:07	09/16/12 18:00	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	2671	X	50 - 150			09/13/12 11:07	09/16/12 18:00	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.10	%			09/12/12 11:18	1
Percent Solids	79		0.10	%			09/12/12 11:18	1
Percent Solids	79		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-4

Lab Sample ID: 490-6194-8

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,1,1-Trichloroethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,1,2,2-Tetrachloroethane	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,1,2-Trichloroethane	ND		0.00479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,1-Dichloroethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Diisopropyl ether	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,1-Dichloroethene	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,1-Dichloropropene	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,2,3-Trichlorobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,2,3-Trichloropropane	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,2,4-Trichlorobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,2,4-Trimethylbenzene	20.8		2.38	mg/Kg	*	09/12/12 13:03	09/18/12 12:52	20
1,2-Dibromo-3-Chloropropane	ND		0.297	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,2-Dibromoethane (EDB)	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,2-Dichlorobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,2-Dichloroethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,2-Dichloropropane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,3,5-Trimethylbenzene	8.26		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,3-Dichlorobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
1,3-Dichloropropane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
1,4-Dichlorobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
2,2-Dichloropropane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
2-Butanone (MEK)	ND		0.0479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
2-Chlorotoluene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
2-Hexanone	ND		0.0479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
4-Chlorotoluene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.0479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Acetone	ND		0.0479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Benzene	0.105		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Bromobenzene	ND		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
Bromochloromethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Bromodichloromethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Bromoform	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Bromomethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Carbon disulfide	0.00896		0.00479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Carbon tetrachloride	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Chlorobenzene	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Chlorodibromomethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Chloroethane	ND		0.00479	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Chloroform	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Chloromethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
cis-1,2-Dichloroethene	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
cis-1,3-Dichloropropene	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Dibromomethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Dichlorodifluoromethane	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Ethylbenzene	7.17		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
Hexachlorobutadiene	ND		0.297	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
Isopropylbenzene	2.71		0.119	mg/Kg	*	09/12/12 13:03	09/14/12 13:54	1
Methyl tert-butyl ether	ND		0.00191	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Methylene Chloride	ND		0.00957	mg/Kg	*	09/12/12 12:59	09/13/12 17:52	1
Naphthalene	178		5.95	mg/Kg	*	09/12/12 13:03	09/18/12 12:52	20

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-4

Lab Sample ID: 490-6194-8

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 83.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.119	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1
N-Propylbenzene	1.70		0.119	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1
p-Isopropyltoluene	1.90		0.119	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1
sec-Butylbenzene	ND		0.119	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1
Styrene	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
tert-Butylbenzene	ND		0.119	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1
Tetrachloroethene	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
Toluene	0.0330		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
trans-1,2-Dichloroethene	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
trans-1,3-Dichloropropene	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
Trichloroethene	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
Trichlorofluoromethane	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
Vinyl chloride	ND		0.00191	mg/Kg	☼	09/12/12 12:59	09/13/12 17:52	1
Xylenes, Total	4.80		0.297	mg/Kg	☼	09/12/12 13:03	09/14/12 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	09/12/12 12:59	09/13/12 17:52	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	09/12/12 13:03	09/14/12 13:54	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	09/12/12 13:03	09/18/12 12:52	20
4-Bromofluorobenzene (Surr)	136	X	70 - 130	09/12/12 12:59	09/13/12 17:52	1
4-Bromofluorobenzene (Surr)	93		70 - 130	09/12/12 13:03	09/14/12 13:54	1
4-Bromofluorobenzene (Surr)	103		70 - 130	09/12/12 13:03	09/18/12 12:52	20
Dibromofluoromethane (Surr)	95		70 - 130	09/12/12 12:59	09/13/12 17:52	1
Dibromofluoromethane (Surr)	87		70 - 130	09/12/12 13:03	09/14/12 13:54	1
Dibromofluoromethane (Surr)	96		70 - 130	09/12/12 13:03	09/18/12 12:52	20
Toluene-d8 (Surr)	112		70 - 130	09/12/12 12:59	09/13/12 17:52	1
Toluene-d8 (Surr)	96		70 - 130	09/12/12 13:03	09/14/12 13:54	1
Toluene-d8 (Surr)	100		70 - 130	09/12/12 13:03	09/18/12 12:52	20

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10	%			09/12/12 11:18	1
Percent Solids	84		0.10	%			09/12/12 11:18	1
Percent Solids	84		0.10	%			09/12/12 11:18	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-4

Lab Sample ID: 490-6194-9

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
1,2-Dichlorobenzene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
1,3-Dichlorobenzene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
1,4-Dichlorobenzene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
1-Methylnaphthalene	37.2		0.819	mg/Kg	*	09/13/12 10:58	09/16/12 00:16	10
2,4,5-Trichlorophenol	ND		1.02	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,4,6-Trichlorophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,4-Dichlorophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,4-Dimethylphenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,4-Dinitrophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,4-Dinitrotoluene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2,6-Dinitrotoluene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Chloronaphthalene	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Chlorophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Methylnaphthalene	3.53		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Methylphenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Nitroaniline	ND		1.02	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
2-Nitrophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
3,3'-Dichlorobenzidine	ND		0.815	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
3 & 4 Methylphenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
3-Nitroaniline	ND		1.02	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4,6-Dinitro-2-methylphenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Bromophenyl phenyl ether	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Chloro-3-methylphenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Chlorophenyl phenyl ether	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Chloroaniline	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Nitroaniline	ND		1.02	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
4-Nitrophenol	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Acenaphthylene	1.69		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Acenaphthene	18.9		0.819	mg/Kg	*	09/13/12 10:58	09/16/12 00:16	10
Benzo[a]anthracene	2.89		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Benzo[a]pyrene	2.46		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Benzo[b]fluoranthene	1.28		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Benzo[g,h,i]perylene	0.819		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Benzo[k]fluoranthene	1.45		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Anthracene	8.38		0.819	mg/Kg	*	09/13/12 10:58	09/16/12 00:16	10
Bis(2-chloroethoxy)methane	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Bis(2-chloroethyl)ether	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Bis(2-ethylhexyl) phthalate	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
bis (2-chloroisopropyl) ether	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Butyl benzyl phthalate	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Carbazole	0.454		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Chrysene	2.20		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Cresols	ND		0.814	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Dibenz(a,h)anthracene	0.256		0.0819	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Dibenzofuran	2.91		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Diethyl phthalate	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Dimethyl phthalate	ND		2.04	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Di-n-butyl phthalate	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Di-n-octyl phthalate	ND		0.407	mg/Kg	*	09/13/12 10:58	09/14/12 04:50	1
Fluoranthene	8.58		0.819	mg/Kg	*	09/13/12 10:58	09/16/12 00:16	10

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-4

Lab Sample ID: 490-6194-9

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	10.7		0.819	mg/Kg	☼	09/13/12 10:58	09/16/12 00:16	10
Hexachlorobenzene	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Hexachlorobutadiene	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Hexachlorocyclopentadiene	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Hexachloroethane	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Indeno[1,2,3-cd]pyrene	0.689		0.0819	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Isophorone	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Naphthalene	28.7		0.819	mg/Kg	☼	09/13/12 10:58	09/16/12 00:16	10
Nitrobenzene	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
N-Nitrosodi-n-propylamine	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Pentachlorophenol	ND		1.02	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Phenanthrene	31.7		0.819	mg/Kg	☼	09/13/12 10:58	09/16/12 00:16	10
Phenol	ND		0.407	mg/Kg	☼	09/13/12 10:58	09/14/12 04:50	1
Pyrene	11.5		0.819	mg/Kg	☼	09/13/12 10:58	09/16/12 00:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		10 - 120	09/13/12 10:58	09/14/12 04:50	1
2-Fluorobiphenyl (Surr)	56		29 - 120	09/13/12 10:58	09/14/12 04:50	1
2-Fluorophenol (Surr)	59		10 - 120	09/13/12 10:58	09/14/12 04:50	1
Nitrobenzene-d5 (Surr)	59		27 - 120	09/13/12 10:58	09/14/12 04:50	1
Phenol-d5 (Surr)	59		10 - 120	09/13/12 10:58	09/14/12 04:50	1
Terphenyl-d14 (Surr)	87		13 - 120	09/13/12 10:58	09/14/12 04:50	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10	%			09/12/12 11:18	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-19575/6

Matrix: Solid

Analysis Batch: 19575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,1,1-Trichloroethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,1,2,2-Tetrachloroethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,1,2-Trichloroethane	ND		0.00500	mg/Kg			09/13/12 11:42	1
1,1-Dichloroethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Diisopropyl ether	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,1-Dichloroethene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,1-Dichloropropene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2,3-Trichlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2,3-Trichloropropane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2,4-Trichlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2,4-Trimethylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2-Dibromo-3-Chloropropane	ND		0.00500	mg/Kg			09/13/12 11:42	1
1,2-Dibromoethane (EDB)	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2-Dichlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2-Dichloroethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,2-Dichloropropane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,3,5-Trimethylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,3-Dichlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,3-Dichloropropane	ND		0.00200	mg/Kg			09/13/12 11:42	1
1,4-Dichlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
2,2-Dichloropropane	ND		0.00200	mg/Kg			09/13/12 11:42	1
2-Butanone (MEK)	ND		0.0500	mg/Kg			09/13/12 11:42	1
2-Chlorotoluene	ND		0.00200	mg/Kg			09/13/12 11:42	1
2-Hexanone	ND		0.0500	mg/Kg			09/13/12 11:42	1
4-Chlorotoluene	ND		0.00200	mg/Kg			09/13/12 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500	mg/Kg			09/13/12 11:42	1
Acetone	ND		0.0500	mg/Kg			09/13/12 11:42	1
Benzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Bromobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Bromochloromethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Bromodichloromethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Bromoform	ND		0.00200	mg/Kg			09/13/12 11:42	1
Bromomethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Carbon disulfide	ND		0.00500	mg/Kg			09/13/12 11:42	1
Carbon tetrachloride	ND		0.00200	mg/Kg			09/13/12 11:42	1
Chlorobenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Chlorodibromomethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Chloroethane	ND		0.00500	mg/Kg			09/13/12 11:42	1
Chloroform	ND		0.00200	mg/Kg			09/13/12 11:42	1
Chloromethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
cis-1,2-Dichloroethene	ND		0.00200	mg/Kg			09/13/12 11:42	1
cis-1,3-Dichloropropene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Dibromomethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Dichlorodifluoromethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Ethylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Hexachlorobutadiene	ND		0.00500	mg/Kg			09/13/12 11:42	1
Isopropylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Methyl tert-butyl ether	ND		0.00200	mg/Kg			09/13/12 11:42	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19575/6
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0100	mg/Kg			09/13/12 11:42	1
Naphthalene	ND		0.00500	mg/Kg			09/13/12 11:42	1
n-Butylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
N-Propylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
p-Isopropyltoluene	ND		0.00200	mg/Kg			09/13/12 11:42	1
sec-Butylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Styrene	ND		0.00200	mg/Kg			09/13/12 11:42	1
tert-Butylbenzene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Tetrachloroethene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Toluene	ND		0.00200	mg/Kg			09/13/12 11:42	1
trans-1,2-Dichloroethene	ND		0.00200	mg/Kg			09/13/12 11:42	1
trans-1,3-Dichloropropene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Trichloroethene	ND		0.00200	mg/Kg			09/13/12 11:42	1
Trichlorofluoromethane	ND		0.00200	mg/Kg			09/13/12 11:42	1
Vinyl chloride	ND		0.00200	mg/Kg			09/13/12 11:42	1
Xylenes, Total	ND		0.00500	mg/Kg			09/13/12 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		09/13/12 11:42	1
4-Bromofluorobenzene (Surr)	94		70 - 130		09/13/12 11:42	1
Dibromofluoromethane (Surr)	102		70 - 130		09/13/12 11:42	1
Toluene-d8 (Surr)	111		70 - 130		09/13/12 11:42	1

Lab Sample ID: MB 490-19575/7
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			09/13/12 12:13	1
1,1-Dichloroethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Diisopropyl ether	ND		0.100	mg/Kg			09/13/12 12:13	1
1,1-Dichloroethene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,1-Dichloropropene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2,3-Trichloropropane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			09/13/12 12:13	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2-Dichloroethane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,2-Dichloropropane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
1,3-Dichloropropane	ND		0.100	mg/Kg			09/13/12 12:13	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19575/7

Matrix: Solid

Analysis Batch: 19575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2,2-Dichloropropane	ND		0.100	mg/Kg			09/13/12 12:13	1
2-Butanone (MEK)	ND		2.50	mg/Kg			09/13/12 12:13	1
2-Chlorotoluene	ND		0.100	mg/Kg			09/13/12 12:13	1
2-Hexanone	ND		2.50	mg/Kg			09/13/12 12:13	1
4-Chlorotoluene	ND		0.100	mg/Kg			09/13/12 12:13	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			09/13/12 12:13	1
Acetone	ND		2.50	mg/Kg			09/13/12 12:13	1
Benzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Bromobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Bromochloromethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Bromodichloromethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Bromoform	ND		0.100	mg/Kg			09/13/12 12:13	1
Bromomethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Carbon disulfide	ND		0.250	mg/Kg			09/13/12 12:13	1
Carbon tetrachloride	ND		0.100	mg/Kg			09/13/12 12:13	1
Chlorobenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Chlorodibromomethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Chloroethane	ND		0.250	mg/Kg			09/13/12 12:13	1
Chloroform	ND		0.100	mg/Kg			09/13/12 12:13	1
Chloromethane	ND		0.100	mg/Kg			09/13/12 12:13	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			09/13/12 12:13	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			09/13/12 12:13	1
Dibromomethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Ethylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Hexachlorobutadiene	ND		0.250	mg/Kg			09/13/12 12:13	1
Isopropylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Methyl tert-butyl ether	ND		0.100	mg/Kg			09/13/12 12:13	1
Methylene Chloride	ND		0.500	mg/Kg			09/13/12 12:13	1
Naphthalene	ND		0.250	mg/Kg			09/13/12 12:13	1
n-Butylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
N-Propylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
p-Isopropyltoluene	ND		0.100	mg/Kg			09/13/12 12:13	1
sec-Butylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Styrene	ND		0.100	mg/Kg			09/13/12 12:13	1
tert-Butylbenzene	ND		0.100	mg/Kg			09/13/12 12:13	1
Tetrachloroethene	ND		0.100	mg/Kg			09/13/12 12:13	1
Toluene	ND		0.100	mg/Kg			09/13/12 12:13	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			09/13/12 12:13	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			09/13/12 12:13	1
Trichloroethene	ND		0.100	mg/Kg			09/13/12 12:13	1
Trichlorofluoromethane	ND		0.100	mg/Kg			09/13/12 12:13	1
Vinyl chloride	ND		0.100	mg/Kg			09/13/12 12:13	1
Xylenes, Total	ND		0.250	mg/Kg			09/13/12 12:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		09/13/12 12:13	1
4-Bromofluorobenzene (Surr)	92		70 - 130		09/13/12 12:13	1
Dibromofluoromethane (Surr)	93		70 - 130		09/13/12 12:13	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19575/7
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery Qualifier				
Toluene-d8 (Surr)	99	70 - 130		09/13/12 12:13	1

Lab Sample ID: LCS 490-19575/3
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.05222		mg/Kg		104	80 - 136
1,1,1-Trichloroethane	0.0500	0.05359		mg/Kg		107	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04923		mg/Kg		98	66 - 134
1,1,2-Trichloroethane	0.0500	0.05513		mg/Kg		110	78 - 128
1,1-Dichloroethane	0.0500	0.05598		mg/Kg		112	75 - 124
Diisopropyl ether	0.0500	0.04924		mg/Kg		98	68 - 124
1,1-Dichloroethene	0.0500	0.05773		mg/Kg		115	75 - 131
1,1-Dichloropropene	0.0500	0.05338		mg/Kg		107	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.05087		mg/Kg		102	70 - 150
1,2,3-Trichloropropane	0.0500	0.04757		mg/Kg		95	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05070		mg/Kg		101	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.04995		mg/Kg		100	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.03345		mg/Kg		67	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.05296		mg/Kg		106	80 - 135
1,2-Dichlorobenzene	0.0500	0.05533		mg/Kg		111	80 - 134
1,2-Dichloroethane	0.0500	0.05396		mg/Kg		108	65 - 134
1,2-Dichloropropane	0.0500	0.04980		mg/Kg		100	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05106		mg/Kg		102	78 - 138
1,3-Dichlorobenzene	0.0500	0.05703		mg/Kg		114	79 - 137
1,3-Dichloropropane	0.0500	0.05253		mg/Kg		105	78 - 126
1,4-Dichlorobenzene	0.0500	0.05829		mg/Kg		117	77 - 139
2,2-Dichloropropane	0.0500	0.05023		mg/Kg		100	68 - 145
2-Butanone (MEK)	0.250	0.2678		mg/Kg		107	61 - 132
2-Chlorotoluene	0.0500	0.04995		mg/Kg		100	78 - 132
2-Hexanone	0.250	0.2478		mg/Kg		99	57 - 148
4-Chlorotoluene	0.0500	0.05508		mg/Kg		110	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2488		mg/Kg		100	59 - 138
Acetone	0.250	0.2497		mg/Kg		100	51 - 149
Benzene	0.0500	0.05722		mg/Kg		114	75 - 127
Bromobenzene	0.0500	0.04734		mg/Kg		95	75 - 130
Bromochloromethane	0.0500	0.05974		mg/Kg		119	70 - 132
Bromodichloromethane	0.0500	0.04781		mg/Kg		96	68 - 135
Bromoform	0.0500	0.04088		mg/Kg		82	36 - 150
Bromomethane	0.0500	0.05985		mg/Kg		120	43 - 142
Carbon disulfide	0.0500	0.04905		mg/Kg		98	74 - 135
Carbon tetrachloride	0.0500	0.05375		mg/Kg		107	70 - 141
Chlorobenzene	0.0500	0.05694		mg/Kg		114	84 - 125
Chlorodibromomethane	0.0500	0.04642		mg/Kg		93	66 - 134
Chloroethane	0.0500	0.05834		mg/Kg		117	53 - 144
Chloroform	0.0500	0.05705		mg/Kg		114	76 - 130
Chloromethane	0.0500	0.04058		mg/Kg		81	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05274		mg/Kg		105	75 - 125

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-19575/3
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	0.0500	0.04768		mg/Kg		95	73 - 148
Dibromomethane	0.0500	0.05302		mg/Kg		106	71 - 130
Dichlorodifluoromethane	0.0500	0.04530		mg/Kg		91	12 - 144
Ethylbenzene	0.0500	0.05451		mg/Kg		109	80 - 134
Hexachlorobutadiene	0.0500	0.04731		mg/Kg		95	65 - 148
Isopropylbenzene	0.0500	0.05860		mg/Kg		117	80 - 150
Methyl tert-butyl ether	0.0500	0.04636		mg/Kg		93	70 - 136
Methylene Chloride	0.0500	0.05325		mg/Kg		107	68 - 144
Naphthalene	0.0500	0.04548		mg/Kg		91	69 - 150
n-Butylbenzene	0.0500	0.05072		mg/Kg		101	72 - 152
N-Propylbenzene	0.0500	0.04918		mg/Kg		98	75 - 137
p-Isopropyltoluene	0.0500	0.05102		mg/Kg		102	77 - 141
sec-Butylbenzene	0.0500	0.05063		mg/Kg		101	79 - 141
Styrene	0.0500	0.05994		mg/Kg		120	82 - 137
tert-Butylbenzene	0.0500	0.04961		mg/Kg		99	80 - 132
Tetrachloroethene	0.0500	0.05985		mg/Kg		120	78 - 140
Toluene	0.0500	0.05653		mg/Kg		113	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05531		mg/Kg		111	76 - 128
trans-1,3-Dichloropropene	0.0500	0.04291		mg/Kg		86	62 - 139
Trichloroethene	0.0500	0.05746		mg/Kg		115	77 - 127
Trichlorofluoromethane	0.0500	0.05046		mg/Kg		101	50 - 140
Vinyl chloride	0.0500	0.04531		mg/Kg		91	47 - 136
Xylenes, Total	0.150	0.1691		mg/Kg		113	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-19575/4
Matrix: Solid
Analysis Batch: 19575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05601		mg/Kg		112	80 - 136	7	50
1,1,1-Trichloroethane	0.0500	0.05627		mg/Kg		113	72 - 140	5	50
1,1,2,2-Tetrachloroethane	0.0500	0.05313		mg/Kg		106	66 - 134	8	50
1,1,2-Trichloroethane	0.0500	0.05854		mg/Kg		117	78 - 128	6	50
1,1-Dichloroethane	0.0500	0.05883		mg/Kg		118	75 - 124	5	50
Diisopropyl ether	0.0500	0.05245		mg/Kg		105	68 - 124	6	45
1,1-Dichloroethene	0.0500	0.05984		mg/Kg		120	75 - 131	4	50
1,1-Dichloropropene	0.0500	0.05580		mg/Kg		112	79 - 127	4	50
1,2,3-Trichlorobenzene	0.0500	0.05814		mg/Kg		116	70 - 150	13	50
1,2,3-Trichloropropane	0.0500	0.04732		mg/Kg		95	65 - 139	1	50
1,2,4-Trichlorobenzene	0.0500	0.05825		mg/Kg		117	62 - 150	14	50
1,2,4-Trimethylbenzene	0.0500	0.05172		mg/Kg		103	77 - 139	3	50
1,2-Dibromo-3-Chloropropane	0.0500	0.03851		mg/Kg		77	49 - 142	14	50
1,2-Dibromoethane (EDB)	0.0500	0.05768		mg/Kg		115	80 - 135	9	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-19575/4

Matrix: Solid

Analysis Batch: 19575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,2-Dichlorobenzene	0.0500	0.05886		mg/Kg		118	80 - 134	6	50
1,2-Dichloroethane	0.0500	0.05790		mg/Kg		116	65 - 134	7	50
1,2-Dichloropropane	0.0500	0.05269		mg/Kg		105	69 - 120	6	50
1,3,5-Trimethylbenzene	0.0500	0.05240		mg/Kg		105	78 - 138	3	50
1,3-Dichlorobenzene	0.0500	0.06085		mg/Kg		122	79 - 137	6	50
1,3-Dichloropropane	0.0500	0.05656		mg/Kg		113	78 - 126	7	42
1,4-Dichlorobenzene	0.0500	0.06193		mg/Kg		124	77 - 139	6	50
2,2-Dichloropropane	0.0500	0.05204		mg/Kg		104	68 - 145	4	50
2-Butanone (MEK)	0.250	0.2909		mg/Kg		116	61 - 132	8	50
2-Chlorotoluene	0.0500	0.05140		mg/Kg		103	78 - 132	3	50
2-Hexanone	0.250	0.2668		mg/Kg		107	57 - 148	7	50
4-Chlorotoluene	0.0500	0.05514		mg/Kg		110	77 - 138	0	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2684		mg/Kg		107	59 - 138	8	50
Acetone	0.250	0.2642		mg/Kg		106	51 - 149	6	50
Benzene	0.0500	0.05944		mg/Kg		119	75 - 127	4	50
Bromobenzene	0.0500	0.04961		mg/Kg		99	75 - 130	5	50
Bromochloromethane	0.0500	0.06353		mg/Kg		127	70 - 132	6	50
Bromodichloromethane	0.0500	0.05071		mg/Kg		101	68 - 135	6	50
Bromoform	0.0500	0.04676		mg/Kg		94	36 - 150	13	50
Bromomethane	0.0500	0.06710		mg/Kg		134	43 - 142	11	50
Carbon disulfide	0.0500	0.05131		mg/Kg		103	74 - 135	4	50
Carbon tetrachloride	0.0500	0.05549		mg/Kg		111	70 - 141	3	50
Chlorobenzene	0.0500	0.05945		mg/Kg		119	84 - 125	4	50
Chlorodibromomethane	0.0500	0.05086		mg/Kg		102	66 - 134	9	50
Chloroethane	0.0500	0.06096		mg/Kg		122	53 - 144	4	50
Chloroform	0.0500	0.06014		mg/Kg		120	76 - 130	5	49
Chloromethane	0.0500	0.05047		mg/Kg		101	23 - 150	22	50
cis-1,2-Dichloroethene	0.0500	0.05567		mg/Kg		111	75 - 125	5	50
cis-1,3-Dichloropropene	0.0500	0.05184		mg/Kg		104	73 - 148	8	50
Dibromomethane	0.0500	0.05695		mg/Kg		114	71 - 130	7	50
Dichlorodifluoromethane	0.0500	0.04742		mg/Kg		95	12 - 144	5	50
Ethylbenzene	0.0500	0.05587		mg/Kg		112	80 - 134	2	50
Hexachlorobutadiene	0.0500	0.05264		mg/Kg		105	65 - 148	11	50
Isopropylbenzene	0.0500	0.06036		mg/Kg		121	80 - 150	3	50
Methyl tert-butyl ether	0.0500	0.05114		mg/Kg		102	70 - 136	10	50
Methylene Chloride	0.0500	0.05706		mg/Kg		114	68 - 144	7	50
Naphthalene	0.0500	0.05347		mg/Kg		107	69 - 150	16	50
n-Butylbenzene	0.0500	0.05305		mg/Kg		106	72 - 152	4	50
N-Propylbenzene	0.0500	0.05088		mg/Kg		102	75 - 137	3	50
p-Isopropyltoluene	0.0500	0.05310		mg/Kg		106	77 - 141	4	50
sec-Butylbenzene	0.0500	0.05243		mg/Kg		105	79 - 141	4	50
Styrene	0.0500	0.06121		mg/Kg		122	82 - 137	2	50
tert-Butylbenzene	0.0500	0.05168		mg/Kg		103	80 - 132	4	50
Tetrachloroethene	0.0500	0.06238		mg/Kg		125	78 - 140	4	50
Toluene	0.0500	0.05820		mg/Kg		116	80 - 132	3	50
trans-1,2-Dichloroethene	0.0500	0.05809		mg/Kg		116	76 - 128	5	50
trans-1,3-Dichloropropene	0.0500	0.04630		mg/Kg		93	62 - 139	8	50
Trichloroethene	0.0500	0.06004		mg/Kg		120	77 - 127	4	50
Trichlorofluoromethane	0.0500	0.05332		mg/Kg		107	50 - 140	6	50
Vinyl chloride	0.0500	0.04792		mg/Kg		96	47 - 136	6	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-19575/4

Matrix: Solid

Analysis Batch: 19575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	0.150	0.1726		mg/Kg		115	80 - 137	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	84		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MB 490-19868/7

Matrix: Solid

Analysis Batch: 19868

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			09/14/12 11:51	1
1,1-Dichloroethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Diisopropyl ether	ND		0.100	mg/Kg			09/14/12 11:51	1
1,1-Dichloroethene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,1-Dichloropropene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2,3-Trichloropropane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			09/14/12 11:51	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2-Dichloroethane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,2-Dichloropropane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
1,3-Dichloropropane	ND		0.100	mg/Kg			09/14/12 11:51	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
2,2-Dichloropropane	ND		0.100	mg/Kg			09/14/12 11:51	1
2-Butanone (MEK)	ND		2.50	mg/Kg			09/14/12 11:51	1
2-Chlorotoluene	ND		0.100	mg/Kg			09/14/12 11:51	1
2-Hexanone	ND		2.50	mg/Kg			09/14/12 11:51	1
4-Chlorotoluene	ND		0.100	mg/Kg			09/14/12 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			09/14/12 11:51	1
Acetone	ND		2.50	mg/Kg			09/14/12 11:51	1
Benzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Bromobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Bromochloromethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Bromodichloromethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Bromoform	ND		0.100	mg/Kg			09/14/12 11:51	1
Bromomethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Carbon disulfide	ND		0.250	mg/Kg			09/14/12 11:51	1
Carbon tetrachloride	ND		0.100	mg/Kg			09/14/12 11:51	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19868/7
Matrix: Solid
Analysis Batch: 19868

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chlorobenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Chlorodibromomethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Chloroethane	ND		0.250	mg/Kg			09/14/12 11:51	1
Chloroform	ND		0.100	mg/Kg			09/14/12 11:51	1
Chloromethane	ND		0.100	mg/Kg			09/14/12 11:51	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			09/14/12 11:51	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			09/14/12 11:51	1
Dibromomethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Ethylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Hexachlorobutadiene	ND		0.250	mg/Kg			09/14/12 11:51	1
Isopropylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Methyl tert-butyl ether	ND		0.100	mg/Kg			09/14/12 11:51	1
Methylene Chloride	ND		0.500	mg/Kg			09/14/12 11:51	1
Naphthalene	ND		0.250	mg/Kg			09/14/12 11:51	1
n-Butylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
N-Propylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
p-Isopropyltoluene	ND		0.100	mg/Kg			09/14/12 11:51	1
sec-Butylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Styrene	ND		0.100	mg/Kg			09/14/12 11:51	1
tert-Butylbenzene	ND		0.100	mg/Kg			09/14/12 11:51	1
Tetrachloroethene	ND		0.100	mg/Kg			09/14/12 11:51	1
Toluene	ND		0.100	mg/Kg			09/14/12 11:51	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			09/14/12 11:51	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			09/14/12 11:51	1
Trichloroethene	ND		0.100	mg/Kg			09/14/12 11:51	1
Trichlorofluoromethane	ND		0.100	mg/Kg			09/14/12 11:51	1
Vinyl chloride	ND		0.100	mg/Kg			09/14/12 11:51	1
Xylenes, Total	ND		0.250	mg/Kg			09/14/12 11:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		09/14/12 11:51	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/14/12 11:51	1
Dibromofluoromethane (Surr)	86		70 - 130		09/14/12 11:51	1
Toluene-d8 (Surr)	99		70 - 130		09/14/12 11:51	1

Lab Sample ID: LCS 490-19868/3
Matrix: Solid
Analysis Batch: 19868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	0.0500	0.05182		mg/Kg		104	80 - 136
1,1,1-Trichloroethane	0.0500	0.05267		mg/Kg		105	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.05293		mg/Kg		106	66 - 134
1,1,2-Trichloroethane	0.0500	0.05335		mg/Kg		107	78 - 128
1,1-Dichloroethane	0.0500	0.05397		mg/Kg		108	75 - 124
Diisopropyl ether	0.0500	0.04938		mg/Kg		99	68 - 124
1,1-Dichloroethene	0.0500	0.05806		mg/Kg		116	75 - 131
1,1-Dichloropropene	0.0500	0.05453		mg/Kg		109	79 - 127

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-19868/3

Matrix: Solid

Analysis Batch: 19868

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	0.0500	0.06136		mg/Kg		123	70 - 150
1,2,3-Trichloropropane	0.0500	0.05242		mg/Kg		105	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.06530		mg/Kg		131	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.05524		mg/Kg		110	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.03967		mg/Kg		79	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.05391		mg/Kg		108	80 - 135
1,2-Dichlorobenzene	0.0500	0.05973		mg/Kg		119	80 - 134
1,2-Dichloroethane	0.0500	0.04935		mg/Kg		99	65 - 134
1,2-Dichloropropane	0.0500	0.05075		mg/Kg		102	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05614		mg/Kg		112	78 - 138
1,3-Dichlorobenzene	0.0500	0.06053		mg/Kg		121	79 - 137
1,3-Dichloropropane	0.0500	0.05280		mg/Kg		106	78 - 126
1,4-Dichlorobenzene	0.0500	0.06148		mg/Kg		123	77 - 139
2,2-Dichloropropane	0.0500	0.05001		mg/Kg		100	68 - 145
2-Butanone (MEK)	0.250	0.2694		mg/Kg		108	61 - 132
2-Chlorotoluene	0.0500	0.05597		mg/Kg		112	78 - 132
2-Hexanone	0.250	0.2544		mg/Kg		102	57 - 148
4-Chlorotoluene	0.0500	0.05751		mg/Kg		115	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2500		mg/Kg		100	59 - 138
Acetone	0.250	0.2455		mg/Kg		98	51 - 149
Benzene	0.0500	0.05716		mg/Kg		114	75 - 127
Bromobenzene	0.0500	0.05574		mg/Kg		111	75 - 130
Bromochloromethane	0.0500	0.05906		mg/Kg		118	70 - 132
Bromodichloromethane	0.0500	0.04778		mg/Kg		96	68 - 135
Bromoform	0.0500	0.04199		mg/Kg		84	36 - 150
Bromomethane	0.0500	0.05149		mg/Kg		103	43 - 142
Carbon disulfide	0.0500	0.05015		mg/Kg		100	74 - 135
Carbon tetrachloride	0.0500	0.05182		mg/Kg		104	70 - 141
Chlorobenzene	0.0500	0.05753		mg/Kg		115	84 - 125
Chlorodibromomethane	0.0500	0.04662		mg/Kg		93	66 - 134
Chloroethane	0.0500	0.05440		mg/Kg		109	53 - 144
Chloroform	0.0500	0.05466		mg/Kg		109	76 - 130
Chloromethane	0.0500	0.05386		mg/Kg		108	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05255		mg/Kg		105	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05195		mg/Kg		104	73 - 148
Dibromomethane	0.0500	0.05136		mg/Kg		103	71 - 130
Dichlorodifluoromethane	0.0500	0.04801		mg/Kg		96	12 - 144
Ethylbenzene	0.0500	0.05584		mg/Kg		112	80 - 134
Hexachlorobutadiene	0.0500	0.05516		mg/Kg		110	65 - 148
Isopropylbenzene	0.0500	0.06065		mg/Kg		121	80 - 150
Methyl tert-butyl ether	0.0500	0.04930		mg/Kg		99	70 - 136
Methylene Chloride	0.0500	0.05420		mg/Kg		108	68 - 144
Naphthalene	0.0500	0.06493		mg/Kg		130	69 - 150
n-Butylbenzene	0.0500	0.05625		mg/Kg		112	72 - 152
N-Propylbenzene	0.0500	0.05477		mg/Kg		110	75 - 137
p-Isopropyltoluene	0.0500	0.05481		mg/Kg		110	77 - 141
sec-Butylbenzene	0.0500	0.05565		mg/Kg		111	79 - 141
Styrene	0.0500	0.05913		mg/Kg		118	82 - 137
tert-Butylbenzene	0.0500	0.05635		mg/Kg		113	80 - 132
Tetrachloroethene	0.0500	0.05840		mg/Kg		117	78 - 140

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-19868/3
Matrix: Solid
Analysis Batch: 19868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0500	0.05654		mg/Kg		113	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05365		mg/Kg		107	76 - 128
trans-1,3-Dichloropropene	0.0500	0.04575		mg/Kg		91	62 - 139
Trichloroethene	0.0500	0.05902		mg/Kg		118	77 - 127
Trichlorofluoromethane	0.0500	0.04810		mg/Kg		96	50 - 140
Vinyl chloride	0.0500	0.05066		mg/Kg		101	47 - 136
Xylenes, Total	0.150	0.1659		mg/Kg		111	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 490-19868/4
Matrix: Solid
Analysis Batch: 19868

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.04949		mg/Kg		99	80 - 136	5	50
1,1,1-Trichloroethane	0.0500	0.05021		mg/Kg		100	72 - 140	5	50
1,1,2,2-Tetrachloroethane	0.0500	0.05041		mg/Kg		101	66 - 134	5	50
1,1,2-Trichloroethane	0.0500	0.05181		mg/Kg		104	78 - 128	3	50
1,1-Dichloroethane	0.0500	0.05167		mg/Kg		103	75 - 124	4	50
Diisopropyl ether	0.0500	0.04650		mg/Kg		93	68 - 124	6	45
1,1-Dichloroethene	0.0500	0.05531		mg/Kg		111	75 - 131	5	50
1,1-Dichloropropene	0.0500	0.05181		mg/Kg		104	79 - 127	5	50
1,2,3-Trichlorobenzene	0.0500	0.05861		mg/Kg		117	70 - 150	5	50
1,2,3-Trichloropropane	0.0500	0.04977		mg/Kg		100	65 - 139	5	50
1,2,4-Trichlorobenzene	0.0500	0.06011		mg/Kg		120	62 - 150	8	50
1,2,4-Trimethylbenzene	0.0500	0.05239		mg/Kg		105	77 - 139	5	50
1,2-Dibromo-3-Chloropropane	0.0500	0.03935		mg/Kg		79	49 - 142	1	50
1,2-Dibromoethane (EDB)	0.0500	0.05165		mg/Kg		103	80 - 135	4	50
1,2-Dichlorobenzene	0.0500	0.05572		mg/Kg		111	80 - 134	7	50
1,2-Dichloroethane	0.0500	0.04705		mg/Kg		94	65 - 134	5	50
1,2-Dichloropropane	0.0500	0.04800		mg/Kg		96	69 - 120	6	50
1,3,5-Trimethylbenzene	0.0500	0.05293		mg/Kg		106	78 - 138	6	50
1,3-Dichlorobenzene	0.0500	0.05682		mg/Kg		114	79 - 137	6	50
1,3-Dichloropropane	0.0500	0.05163		mg/Kg		103	78 - 126	2	42
1,4-Dichlorobenzene	0.0500	0.05789		mg/Kg		116	77 - 139	6	50
2,2-Dichloropropane	0.0500	0.04722		mg/Kg		94	68 - 145	6	50
2-Butanone (MEK)	0.250	0.2563		mg/Kg		103	61 - 132	5	50
2-Chlorotoluene	0.0500	0.05244		mg/Kg		105	78 - 132	7	50
2-Hexanone	0.250	0.2498		mg/Kg		100	57 - 148	2	50
4-Chlorotoluene	0.0500	0.05400		mg/Kg		108	77 - 138	6	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2531		mg/Kg		101	59 - 138	1	50
Acetone	0.250	0.2393		mg/Kg		96	51 - 149	3	50
Benzene	0.0500	0.05454		mg/Kg		109	75 - 127	5	50
Bromobenzene	0.0500	0.04983		mg/Kg		100	75 - 130	11	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-19868/4

Matrix: Solid

Analysis Batch: 19868

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Bromochloromethane	0.0500	0.05576		mg/Kg		112	70 - 132	6	50
Bromodichloromethane	0.0500	0.04506		mg/Kg		90	68 - 135	6	50
Bromoform	0.0500	0.04006		mg/Kg		80	36 - 150	5	50
Bromomethane	0.0500	0.04728		mg/Kg		95	43 - 142	9	50
Carbon disulfide	0.0500	0.04693		mg/Kg		94	74 - 135	7	50
Carbon tetrachloride	0.0500	0.04899		mg/Kg		98	70 - 141	6	50
Chlorobenzene	0.0500	0.05504		mg/Kg		110	84 - 125	4	50
Chlorodibromomethane	0.0500	0.04398		mg/Kg		88	66 - 134	6	50
Chloroethane	0.0500	0.05026		mg/Kg		101	53 - 144	8	50
Chloroform	0.0500	0.05217		mg/Kg		104	76 - 130	5	49
Chloromethane	0.0500	0.03494		mg/Kg		70	23 - 150	43	50
cis-1,2-Dichloroethene	0.0500	0.04955		mg/Kg		99	75 - 125	6	50
cis-1,3-Dichloropropene	0.0500	0.04750		mg/Kg		95	73 - 148	9	50
Dibromomethane	0.0500	0.04875		mg/Kg		98	71 - 130	5	50
Dichlorodifluoromethane	0.0500	0.04388		mg/Kg		88	12 - 144	9	50
Ethylbenzene	0.0500	0.05292		mg/Kg		106	80 - 134	5	50
Hexachlorobutadiene	0.0500	0.05317		mg/Kg		106	65 - 148	4	50
Isopropylbenzene	0.0500	0.05684		mg/Kg		114	80 - 150	6	50
Methyl tert-butyl ether	0.0500	0.04696		mg/Kg		94	70 - 136	5	50
Methylene Chloride	0.0500	0.05032		mg/Kg		101	68 - 144	7	50
Naphthalene	0.0500	0.06094		mg/Kg		122	69 - 150	6	50
n-Butylbenzene	0.0500	0.05148		mg/Kg		103	72 - 152	9	50
N-Propylbenzene	0.0500	0.05157		mg/Kg		103	75 - 137	6	50
p-Isopropyltoluene	0.0500	0.05287		mg/Kg		106	77 - 141	4	50
sec-Butylbenzene	0.0500	0.05332		mg/Kg		107	79 - 141	4	50
Styrene	0.0500	0.05540		mg/Kg		111	82 - 137	7	50
tert-Butylbenzene	0.0500	0.05339		mg/Kg		107	80 - 132	5	50
Tetrachloroethene	0.0500	0.05523		mg/Kg		110	78 - 140	6	50
Toluene	0.0500	0.05537		mg/Kg		111	80 - 132	2	50
trans-1,2-Dichloroethene	0.0500	0.05131		mg/Kg		103	76 - 128	4	50
trans-1,3-Dichloropropene	0.0500	0.04337		mg/Kg		87	62 - 139	5	50
Trichloroethene	0.0500	0.05604		mg/Kg		112	77 - 127	5	50
Trichlorofluoromethane	0.0500	0.04626		mg/Kg		93	50 - 140	4	50
Vinyl chloride	0.0500	0.04713		mg/Kg		94	47 - 136	7	50
Xylenes, Total	0.150	0.1566		mg/Kg		104	80 - 137	6	50

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 490-6490-A-31-B MS

Matrix: Solid

Analysis Batch: 20787

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20311

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
				Result	Qualifier				Limits
1,1,1,2-Tetrachloroethane	ND		0.0717	0.06383		mg/Kg		89	19 - 158
1,1,1-Trichloroethane	ND		0.0717	0.06967		mg/Kg	*	97	35 - 149

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6490-A-31-B MS
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20311

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,2,2-Tetrachloroethane	ND		0.0717	0.06901		mg/Kg	*	96	10 - 162
1,1,2-Trichloroethane	ND		0.0717	0.07105		mg/Kg	*	99	19 - 157
1,1-Dichloroethane	ND		0.0717	0.07016		mg/Kg	*	98	42 - 136
Diisopropyl ether	ND		0.0717	0.07248		mg/Kg	*	101	35 - 135
1,1-Dichloroethene	ND		0.0717	0.06747		mg/Kg	*	94	41 - 143
1,1-Dichloropropene	ND		0.0717	0.06981		mg/Kg	*	97	38 - 145
1,2,3-Trichlorobenzene	ND		0.0717	0.03187		mg/Kg	*	44	10 - 157
1,2,3-Trichloropropane	ND		0.0717	0.06733		mg/Kg	*	94	10 - 157
1,2,4-Trichlorobenzene	ND		0.0717	0.03763		mg/Kg	*	52	10 - 167
1,2,4-Trimethylbenzene	ND		0.0717	0.06737		mg/Kg	*	94	14 - 165
1,2-Dibromo-3-Chloropropane	ND		0.0717	0.04564		mg/Kg	*	64	10 - 147
1,2-Dibromoethane (EDB)	ND		0.0717	0.07013		mg/Kg	*	98	18 - 156
1,2-Dichlorobenzene	ND		0.0717	0.05613		mg/Kg	*	78	10 - 160
1,2-Dichloroethane	ND		0.0717	0.07049		mg/Kg	*	98	28 - 138
1,2-Dichloropropane	ND		0.0717	0.06817		mg/Kg	*	95	20 - 146
1,3,5-Trimethylbenzene	ND		0.0717	0.06927		mg/Kg	*	97	18 - 164
1,3-Dichlorobenzene	ND		0.0717	0.05820		mg/Kg	*	81	10 - 162
1,3-Dichloropropane	ND		0.0717	0.06980		mg/Kg	*	97	22 - 148
1,4-Dichlorobenzene	ND		0.0717	0.05851		mg/Kg	*	82	11 - 159
2,2-Dichloropropane	ND		0.0717	0.07761		mg/Kg	*	108	33 - 148
2-Butanone (MEK)	ND		0.359	0.2752		mg/Kg	*	77	18 - 153
2-Chlorotoluene	ND		0.0717	0.06729		mg/Kg	*	94	20 - 156
2-Hexanone	ND		0.359	0.3009		mg/Kg	*	84	10 - 169
4-Chlorotoluene	ND		0.0717	0.06550		mg/Kg	*	91	17 - 159
4-Methyl-2-pentanone (MIBK)	ND		0.359	0.3375		mg/Kg	*	94	10 - 168
Acetone	ND		0.359	0.3385		mg/Kg	*	79	19 - 175
Benzene	ND		0.0717	0.06711		mg/Kg	*	94	31 - 143
Bromobenzene	ND		0.0717	0.06453		mg/Kg	*	90	12 - 157
Bromochloromethane	ND		0.0717	0.07578		mg/Kg	*	106	31 - 141
Bromodichloromethane	ND		0.0717	0.06728		mg/Kg	*	94	19 - 148
Bromoform	ND		0.0717	0.05835		mg/Kg	*	81	10 - 165
Bromomethane	ND		0.0717	0.05383		mg/Kg	*	75	10 - 164
Carbon disulfide	ND		0.0717	0.07130		mg/Kg	*	99	32 - 144
Carbon tetrachloride	ND		0.0717	0.06324		mg/Kg	*	88	31 - 149
Chlorobenzene	ND		0.0717	0.06209		mg/Kg	*	87	25 - 152
Chlorodibromomethane	ND		0.0717	0.06700		mg/Kg	*	93	14 - 146
Chloroethane	ND		0.0717	0.06486		mg/Kg	*	90	10 - 151
Chloroform	ND		0.0717	0.06457		mg/Kg	*	90	34 - 160
Chloromethane	ND		0.0717	0.05052		mg/Kg	*	70	10 - 156
cis-1,2-Dichloroethene	ND		0.0717	0.06855		mg/Kg	*	96	36 - 139
cis-1,3-Dichloropropene	ND		0.0717	0.07523		mg/Kg	*	105	15 - 166
Dibromomethane	ND		0.0717	0.07005		mg/Kg	*	98	20 - 146
Dichlorodifluoromethane	ND		0.0717	0.05864		mg/Kg	*	82	10 - 143
Ethylbenzene	ND		0.0717	0.06605		mg/Kg	*	92	23 - 161
Hexachlorobutadiene	ND		0.0717	0.04487		mg/Kg	*	63	10 - 171
Isopropylbenzene	ND		0.0717	0.07346		mg/Kg	*	102	23 - 181
Methyl tert-butyl ether	ND		0.0717	0.08331		mg/Kg	*	116	28 - 141
Methylene Chloride	ND		0.0717	0.06688		mg/Kg	*	93	24 - 182
Naphthalene	ND		0.0717	0.02633		mg/Kg	*	37	10 - 176
n-Butylbenzene	ND		0.0717	0.06446		mg/Kg	*	90	10 - 175

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6490-A-31-B MS
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20311

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
N-Propylbenzene	ND		0.0717	0.07111		mg/Kg	*	99	19 - 162
p-Isopropyltoluene	ND		0.0717	0.08571		mg/Kg	*	120	12 - 168
sec-Butylbenzene	ND		0.0717	0.06947		mg/Kg	*	97	12 - 170
Styrene	ND		0.0717	0.05509		mg/Kg	*	77	10 - 165
tert-Butylbenzene	ND		0.0717	0.07202		mg/Kg	*	100	20 - 164
Tetrachloroethene	ND		0.0717	0.06879		mg/Kg	*	96	33 - 161
Toluene	ND		0.0717	0.06631		mg/Kg	*	92	30 - 155
trans-1,2-Dichloroethene	ND		0.0717	0.06890		mg/Kg	*	96	39 - 140
trans-1,3-Dichloropropene	ND		0.0717	0.07468		mg/Kg	*	104	10 - 157
Trichloroethene	ND		0.0717	0.06610		mg/Kg	*	92	27 - 153
Trichlorofluoromethane	ND		0.0717	0.06549		mg/Kg	*	91	25 - 140
Vinyl chloride	ND		0.0717	0.06369		mg/Kg	*	89	20 - 141
Xylenes, Total	ND		0.215	0.1948		mg/Kg	*	91	25 - 162
		MS MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		70 - 130						
4-Bromofluorobenzene (Surr)	112		70 - 130						
Dibromofluoromethane (Surr)	100		70 - 130						
Toluene-d8 (Surr)	100		70 - 130						

Lab Sample ID: 490-6490-A-31-C MSD
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20311

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		0.0701	0.06854		mg/Kg	*	98	19 - 158	7	50
1,1,1-Trichloroethane	ND		0.0701	0.07063		mg/Kg	*	101	35 - 149	1	50
1,1,2,2-Tetrachloroethane	ND		0.0701	0.07316		mg/Kg	*	104	10 - 162	6	50
1,1,2-Trichloroethane	ND		0.0701	0.07419		mg/Kg	*	106	19 - 157	4	50
1,1-Dichloroethane	ND		0.0701	0.07262		mg/Kg	*	104	42 - 136	3	50
Diisopropyl ether	ND		0.0701	0.07475		mg/Kg	*	107	35 - 135	3	45
1,1-Dichloroethene	ND		0.0701	0.06876		mg/Kg	*	98	41 - 143	2	50
1,1-Dichloropropene	ND		0.0701	0.06982		mg/Kg	*	100	38 - 145	0	50
1,2,3-Trichlorobenzene	ND		0.0701	0.03235		mg/Kg	*	46	10 - 157	1	50
1,2,3-Trichloropropene	ND		0.0701	0.07311		mg/Kg	*	104	10 - 157	8	50
1,2,4-Trichlorobenzene	ND		0.0701	0.03834		mg/Kg	*	55	10 - 167	2	50
1,2,4-Trimethylbenzene	ND		0.0701	0.07150		mg/Kg	*	102	14 - 165	6	50
1,2-Dibromo-3-Chloropropane	ND		0.0701	0.04848		mg/Kg	*	69	10 - 147	6	50
1,2-Dibromoethane (EDB)	ND		0.0701	0.07170		mg/Kg	*	102	18 - 156	2	50
1,2-Dichlorobenzene	ND		0.0701	0.05972		mg/Kg	*	85	10 - 160	6	50
1,2-Dichloroethane	ND		0.0701	0.07161		mg/Kg	*	102	28 - 138	2	50
1,2-Dichloropropane	ND		0.0701	0.06859		mg/Kg	*	98	20 - 146	1	50
1,3,5-Trimethylbenzene	ND		0.0701	0.07360		mg/Kg	*	105	18 - 164	6	50
1,3-Dichlorobenzene	ND		0.0701	0.06340		mg/Kg	*	90	10 - 162	9	50
1,3-Dichloropropane	ND		0.0701	0.07356		mg/Kg	*	105	22 - 148	5	42
1,4-Dichlorobenzene	ND		0.0701	0.06248		mg/Kg	*	89	11 - 159	7	50
2,2-Dichloropropane	ND		0.0701	0.07862		mg/Kg	*	112	33 - 148	1	50
2-Butanone (MEK)	ND		0.351	0.2625		mg/Kg	*	75	18 - 153	5	50
2-Chlorotoluene	ND		0.0701	0.07306		mg/Kg	*	104	20 - 156	8	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6490-A-31-C MSD
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20311

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Hexanone	ND		0.351	0.3018		mg/Kg	*	86	10 - 169	0	50
4-Chlorotoluene	ND		0.0701	0.07119		mg/Kg	*	102	17 - 159	8	50
4-Methyl-2-pentanone (MIBK)	ND		0.351	0.3427		mg/Kg	*	98	10 - 168	2	50
Acetone	ND		0.351	0.2883		mg/Kg	*	66	19 - 175	16	50
Benzene	ND		0.0701	0.06833		mg/Kg	*	97	31 - 143	2	50
Bromobenzene	ND		0.0701	0.06940		mg/Kg	*	99	12 - 157	7	50
Bromochloromethane	ND		0.0701	0.07674		mg/Kg	*	109	31 - 141	1	50
Bromodichloromethane	ND		0.0701	0.06966		mg/Kg	*	99	19 - 148	3	50
Bromoform	ND		0.0701	0.06088		mg/Kg	*	87	10 - 165	4	50
Bromomethane	ND		0.0701	0.06050		mg/Kg	*	86	10 - 164	12	50
Carbon disulfide	ND		0.0701	0.07575		mg/Kg	*	108	32 - 144	6	50
Carbon tetrachloride	ND		0.0701	0.06553		mg/Kg	*	93	31 - 149	4	50
Chlorobenzene	ND		0.0701	0.06633		mg/Kg	*	95	25 - 152	7	50
Chlorodibromomethane	ND		0.0701	0.07038		mg/Kg	*	100	14 - 146	5	50
Chloroethane	ND		0.0701	0.06577		mg/Kg	*	94	10 - 151	1	50
Chloroform	ND		0.0701	0.06607		mg/Kg	*	94	34 - 160	2	49
Chloromethane	ND		0.0701	0.04985		mg/Kg	*	71	10 - 156	1	50
cis-1,2-Dichloroethene	ND		0.0701	0.07096		mg/Kg	*	101	36 - 139	3	50
cis-1,3-Dichloropropene	ND		0.0701	0.07916		mg/Kg	*	113	15 - 166	5	50
Dibromomethane	ND		0.0701	0.07174		mg/Kg	*	102	20 - 146	2	50
Dichlorodifluoromethane	ND		0.0701	0.05819		mg/Kg	*	83	10 - 143	1	50
Ethylbenzene	ND		0.0701	0.06957		mg/Kg	*	99	23 - 161	5	50
Hexachlorobutadiene	ND		0.0701	0.04111		mg/Kg	*	59	10 - 171	9	50
Isopropylbenzene	ND		0.0701	0.07358		mg/Kg	*	105	23 - 181	0	50
Methyl tert-butyl ether	ND		0.0701	0.08488		mg/Kg	*	121	28 - 141	2	50
Methylene Chloride	ND		0.0701	0.06857		mg/Kg	*	98	24 - 182	3	50
Naphthalene	ND		0.0701	0.02717		mg/Kg	*	39	10 - 176	3	50
n-Butylbenzene	ND		0.0701	0.06445		mg/Kg	*	92	10 - 175	0	50
N-Propylbenzene	ND		0.0701	0.07491		mg/Kg	*	107	19 - 162	5	50
p-Isopropyltoluene	ND		0.0701	0.07019		mg/Kg	*	100	12 - 168	20	50
sec-Butylbenzene	ND		0.0701	0.07121		mg/Kg	*	102	12 - 170	2	50
Styrene	ND		0.0701	0.05678		mg/Kg	*	81	10 - 165	3	50
tert-Butylbenzene	ND		0.0701	0.07611		mg/Kg	*	109	20 - 164	6	50
Tetrachloroethene	ND		0.0701	0.07037		mg/Kg	*	100	33 - 161	2	50
Toluene	ND		0.0701	0.07004		mg/Kg	*	100	30 - 155	5	50
trans-1,2-Dichloroethene	ND		0.0701	0.07149		mg/Kg	*	102	39 - 140	4	50
trans-1,3-Dichloropropene	ND		0.0701	0.07937		mg/Kg	*	113	10 - 157	6	50
Trichloroethene	ND		0.0701	0.06856		mg/Kg	*	98	27 - 153	4	50
Trichlorofluoromethane	ND		0.0701	0.06669		mg/Kg	*	95	25 - 140	2	50
Vinyl chloride	ND		0.0701	0.06475		mg/Kg	*	92	20 - 141	2	50
Xylenes, Total	ND		0.210	0.2036		mg/Kg	*	97	25 - 162	4	50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	115		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	102		70 - 130

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-20787/7

Matrix: Solid

Analysis Batch: 20787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			09/18/12 11:54	1
1,1-Dichloroethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Diisopropyl ether	ND		0.100	mg/Kg			09/18/12 11:54	1
1,1-Dichloroethene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,1-Dichloropropene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2,3-Trichloropropane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			09/18/12 11:54	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2-Dichloroethane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,2-Dichloropropane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
1,3-Dichloropropane	ND		0.100	mg/Kg			09/18/12 11:54	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
2,2-Dichloropropane	ND		0.100	mg/Kg			09/18/12 11:54	1
2-Butanone (MEK)	ND		2.50	mg/Kg			09/18/12 11:54	1
2-Chlorotoluene	ND		0.100	mg/Kg			09/18/12 11:54	1
2-Hexanone	ND		2.50	mg/Kg			09/18/12 11:54	1
4-Chlorotoluene	ND		0.100	mg/Kg			09/18/12 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			09/18/12 11:54	1
Acetone	ND		2.50	mg/Kg			09/18/12 11:54	1
Benzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Bromobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Bromochloromethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Bromodichloromethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Bromoform	ND		0.100	mg/Kg			09/18/12 11:54	1
Bromomethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Carbon disulfide	ND		0.250	mg/Kg			09/18/12 11:54	1
Carbon tetrachloride	ND		0.100	mg/Kg			09/18/12 11:54	1
Chlorobenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Chlorodibromomethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Chloroethane	ND		0.250	mg/Kg			09/18/12 11:54	1
Chloroform	ND		0.100	mg/Kg			09/18/12 11:54	1
Chloromethane	ND		0.100	mg/Kg			09/18/12 11:54	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			09/18/12 11:54	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			09/18/12 11:54	1
Dibromomethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Ethylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Hexachlorobutadiene	ND		0.250	mg/Kg			09/18/12 11:54	1
Isopropylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Methyl tert-butyl ether	ND		0.100	mg/Kg			09/18/12 11:54	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-20787/7

Matrix: Solid

Analysis Batch: 20787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Methylene Chloride	ND		0.500	mg/Kg			09/18/12 11:54	1
Naphthalene	ND		0.250	mg/Kg			09/18/12 11:54	1
n-Butylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
N-Propylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
p-Isopropyltoluene	ND		0.100	mg/Kg			09/18/12 11:54	1
sec-Butylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Styrene	ND		0.100	mg/Kg			09/18/12 11:54	1
tert-Butylbenzene	ND		0.100	mg/Kg			09/18/12 11:54	1
Tetrachloroethene	ND		0.100	mg/Kg			09/18/12 11:54	1
Toluene	ND		0.100	mg/Kg			09/18/12 11:54	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			09/18/12 11:54	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			09/18/12 11:54	1
Trichloroethene	ND		0.100	mg/Kg			09/18/12 11:54	1
Trichlorofluoromethane	ND		0.100	mg/Kg			09/18/12 11:54	1
Vinyl chloride	ND		0.100	mg/Kg			09/18/12 11:54	1
Xylenes, Total	ND		0.250	mg/Kg			09/18/12 11:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		09/18/12 11:54	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/18/12 11:54	1
Dibromofluoromethane (Surr)	97		70 - 130		09/18/12 11:54	1
Toluene-d8 (Surr)	99		70 - 130		09/18/12 11:54	1

Lab Sample ID: LCS 490-20787/3

Matrix: Solid

Analysis Batch: 20787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	0.0500	0.05145		mg/Kg		103	80 - 136
1,1,1-Trichloroethane	0.0500	0.05543		mg/Kg		111	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04874		mg/Kg		97	66 - 134
1,1,2-Trichloroethane	0.0500	0.05226		mg/Kg		105	78 - 128
1,1-Dichloroethane	0.0500	0.05504		mg/Kg		110	75 - 124
Diisopropyl ether	0.0500	0.05347		mg/Kg		107	68 - 124
1,1-Dichloroethene	0.0500	0.05499		mg/Kg		110	75 - 131
1,1-Dichloropropene	0.0500	0.05495		mg/Kg		110	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.05559		mg/Kg		111	70 - 150
1,2,3-Trichloropropane	0.0500	0.04805		mg/Kg		96	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05697		mg/Kg		114	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.05502		mg/Kg		110	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04726		mg/Kg		95	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.05237		mg/Kg		105	80 - 135
1,2-Dichlorobenzene	0.0500	0.05412		mg/Kg		108	80 - 134
1,2-Dichloroethane	0.0500	0.05123		mg/Kg		102	65 - 134
1,2-Dichloropropane	0.0500	0.05120		mg/Kg		102	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05469		mg/Kg		109	78 - 138
1,3-Dichlorobenzene	0.0500	0.05466		mg/Kg		109	79 - 137
1,3-Dichloropropane	0.0500	0.05110		mg/Kg		102	78 - 126
1,4-Dichlorobenzene	0.0500	0.05436		mg/Kg		109	77 - 139

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-20787/3
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	0.0500	0.06260		mg/Kg		125	68 - 145
2-Butanone (MEK)	0.250	0.2268		mg/Kg		91	61 - 132
2-Chlorotoluene	0.0500	0.05376		mg/Kg		108	78 - 132
2-Hexanone	0.250	0.2424		mg/Kg		97	57 - 148
4-Chlorotoluene	0.0500	0.05402		mg/Kg		108	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2432		mg/Kg		97	59 - 138
Acetone	0.250	0.2228		mg/Kg		89	51 - 149
Benzene	0.0500	0.05334		mg/Kg		107	75 - 127
Bromobenzene	0.0500	0.05385		mg/Kg		108	75 - 130
Bromochloromethane	0.0500	0.05578		mg/Kg		112	70 - 132
Bromodichloromethane	0.0500	0.05191		mg/Kg		104	68 - 135
Bromoform	0.0500	0.04747		mg/Kg		95	36 - 150
Bromomethane	0.0500	0.04893		mg/Kg		98	43 - 142
Carbon disulfide	0.0500	0.05230		mg/Kg		105	74 - 135
Carbon tetrachloride	0.0500	0.05224		mg/Kg		104	70 - 141
Chlorobenzene	0.0500	0.05287		mg/Kg		106	84 - 125
Chlorodibromomethane	0.0500	0.05245		mg/Kg		105	66 - 134
Chloroethane	0.0500	0.05068		mg/Kg		101	53 - 144
Chloroform	0.0500	0.04899		mg/Kg		98	76 - 130
Chloromethane	0.0500	0.04332		mg/Kg		87	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05372		mg/Kg		107	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05895		mg/Kg		118	73 - 148
Dibromomethane	0.0500	0.05039		mg/Kg		101	71 - 130
Dichlorodifluoromethane	0.0500	0.04631		mg/Kg		93	12 - 144
Ethylbenzene	0.0500	0.05459		mg/Kg		109	80 - 134
Hexachlorobutadiene	0.0500	0.05127		mg/Kg		103	65 - 148
Isopropylbenzene	0.0500	0.05877		mg/Kg		118	80 - 150
Methyl tert-butyl ether	0.0500	0.05734		mg/Kg		115	70 - 136
Methylene Chloride	0.0500	0.05230		mg/Kg		105	68 - 144
Naphthalene	0.0500	0.05350		mg/Kg		107	69 - 150
n-Butylbenzene	0.0500	0.05623		mg/Kg		112	72 - 152
N-Propylbenzene	0.0500	0.05370		mg/Kg		107	75 - 137
p-Isopropyltoluene	0.0500	0.05390		mg/Kg		108	77 - 141
sec-Butylbenzene	0.0500	0.05438		mg/Kg		109	79 - 141
Styrene	0.0500	0.05675		mg/Kg		113	82 - 137
tert-Butylbenzene	0.0500	0.05454		mg/Kg		109	80 - 132
Tetrachloroethene	0.0500	0.05562		mg/Kg		111	78 - 140
Toluene	0.0500	0.05296		mg/Kg		106	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05591		mg/Kg		112	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05986		mg/Kg		120	62 - 139
Trichloroethene	0.0500	0.05352		mg/Kg		107	77 - 127
Trichlorofluoromethane	0.0500	0.04876		mg/Kg		98	50 - 140
Vinyl chloride	0.0500	0.05183		mg/Kg		104	47 - 136
Xylenes, Total	0.150	0.1631		mg/Kg		109	80 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-20787/3
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 490-20787/4
Matrix: Solid
Analysis Batch: 20787

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05056		mg/Kg		101	80 - 136	2	50
1,1,1-Trichloroethane	0.0500	0.05199		mg/Kg		104	72 - 140	6	50
1,1,2,2-Tetrachloroethane	0.0500	0.04933		mg/Kg		99	66 - 134	1	50
1,1,2-Trichloroethane	0.0500	0.05201		mg/Kg		104	78 - 128	0	50
1,1-Dichloroethane	0.0500	0.05203		mg/Kg		104	75 - 124	6	50
Diisopropyl ether	0.0500	0.05204		mg/Kg		104	68 - 124	3	45
1,1-Dichloroethene	0.0500	0.05147		mg/Kg		103	75 - 131	7	50
1,1-Dichloropropene	0.0500	0.05158		mg/Kg		103	79 - 127	6	50
1,2,3-Trichlorobenzene	0.0500	0.05383		mg/Kg		108	70 - 150	3	50
1,2,3-Trichloropropane	0.0500	0.04897		mg/Kg		98	65 - 139	2	50
1,2,4-Trichlorobenzene	0.0500	0.05514		mg/Kg		110	62 - 150	3	50
1,2,4-Trimethylbenzene	0.0500	0.05231		mg/Kg		105	77 - 139	5	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04840		mg/Kg		97	49 - 142	2	50
1,2-Dibromoethane (EDB)	0.0500	0.05193		mg/Kg		104	80 - 135	1	50
1,2-Dichlorobenzene	0.0500	0.05190		mg/Kg		104	80 - 134	4	50
1,2-Dichloroethane	0.0500	0.05046		mg/Kg		101	65 - 134	2	50
1,2-Dichloropropane	0.0500	0.04959		mg/Kg		99	69 - 120	3	50
1,3,5-Trimethylbenzene	0.0500	0.05206		mg/Kg		104	78 - 138	5	50
1,3-Dichlorobenzene	0.0500	0.05233		mg/Kg		105	79 - 137	4	50
1,3-Dichloropropane	0.0500	0.05105		mg/Kg		102	78 - 126	0	42
1,4-Dichlorobenzene	0.0500	0.05148		mg/Kg		103	77 - 139	5	50
2,2-Dichloropropane	0.0500	0.05749		mg/Kg		115	68 - 145	9	50
2-Butanone (MEK)	0.250	0.2114		mg/Kg		85	61 - 132	7	50
2-Chlorotoluene	0.0500	0.05062		mg/Kg		101	78 - 132	6	50
2-Hexanone	0.250	0.2418		mg/Kg		97	57 - 148	0	50
4-Chlorotoluene	0.0500	0.05120		mg/Kg		102	77 - 138	5	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2479		mg/Kg		99	59 - 138	2	50
Acetone	0.250	0.1971		mg/Kg		79	51 - 149	12	50
Benzene	0.0500	0.05060		mg/Kg		101	75 - 127	5	50
Bromobenzene	0.0500	0.05170		mg/Kg		103	75 - 130	4	50
Bromochloromethane	0.0500	0.05506		mg/Kg		110	70 - 132	1	50
Bromodichloromethane	0.0500	0.04958		mg/Kg		99	68 - 135	5	50
Bromoform	0.0500	0.04905		mg/Kg		98	36 - 150	3	50
Bromomethane	0.0500	0.04493		mg/Kg		90	43 - 142	9	50
Carbon disulfide	0.0500	0.04913		mg/Kg		98	74 - 135	6	50
Carbon tetrachloride	0.0500	0.04802		mg/Kg		96	70 - 141	8	50
Chlorobenzene	0.0500	0.05008		mg/Kg		100	84 - 125	5	50
Chlorodibromomethane	0.0500	0.05201		mg/Kg		104	66 - 134	1	50
Chloroethane	0.0500	0.04696		mg/Kg		94	53 - 144	8	50
Chloroform	0.0500	0.04750		mg/Kg		95	76 - 130	3	49
Chloromethane	0.0500	0.04292		mg/Kg		86	23 - 150	1	50
cis-1,2-Dichloroethene	0.0500	0.05171		mg/Kg		103	75 - 125	4	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-20787/4

Matrix: Solid

Analysis Batch: 20787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
cis-1,3-Dichloropropene	0.0500	0.05867		mg/Kg		117	73 - 148	0	50	
Dibromomethane	0.0500	0.05085		mg/Kg		102	71 - 130	1	50	
Dichlorodifluoromethane	0.0500	0.04161		mg/Kg		83	12 - 144	11	50	
Ethylbenzene	0.0500	0.05177		mg/Kg		104	80 - 134	5	50	
Hexachlorobutadiene	0.0500	0.05093		mg/Kg		102	65 - 148	1	50	
Isopropylbenzene	0.0500	0.05771		mg/Kg		115	80 - 150	2	50	
Methyl tert-butyl ether	0.0500	0.05759		mg/Kg		115	70 - 136	0	50	
Methylene Chloride	0.0500	0.04860		mg/Kg		97	68 - 144	7	50	
Naphthalene	0.0500	0.05325		mg/Kg		106	69 - 150	0	50	
n-Butylbenzene	0.0500	0.05358		mg/Kg		107	72 - 152	5	50	
N-Propylbenzene	0.0500	0.05089		mg/Kg		102	75 - 137	5	50	
p-Isopropyltoluene	0.0500	0.05204		mg/Kg		104	77 - 141	4	50	
sec-Butylbenzene	0.0500	0.05183		mg/Kg		104	79 - 141	5	50	
Styrene	0.0500	0.05438		mg/Kg		109	82 - 137	4	50	
tert-Butylbenzene	0.0500	0.05201		mg/Kg		104	80 - 132	5	50	
Tetrachloroethene	0.0500	0.05189		mg/Kg		104	78 - 140	7	50	
Toluene	0.0500	0.05042		mg/Kg		101	80 - 132	5	50	
trans-1,2-Dichloroethene	0.0500	0.05228		mg/Kg		105	76 - 128	7	50	
trans-1,3-Dichloropropene	0.0500	0.05919		mg/Kg		118	62 - 139	1	50	
Trichloroethene	0.0500	0.05066		mg/Kg		101	77 - 127	5	50	
Trichlorofluoromethane	0.0500	0.04607		mg/Kg		92	50 - 140	6	50	
Vinyl chloride	0.0500	0.04712		mg/Kg		94	47 - 136	10	50	
Xylenes, Total	0.150	0.1548		mg/Kg		103	80 - 137	5	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-19587/1-A

Matrix: Solid

Analysis Batch: 19727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19587

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
1,2-Dichlorobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
1,3-Dichlorobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
1,4-Dichlorobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
1-Methylnaphthalene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4,5-Trichlorophenol	ND		0.833	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4,6-Trichlorophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4-Dichlorophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4-Dimethylphenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4-Dinitrophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,4-Dinitrotoluene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2,6-Dinitrotoluene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19587/1-A
Matrix: Solid
Analysis Batch: 19727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19587

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2-Chloronaphthalene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2-Chlorophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2-Methylnaphthalene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2-Methylphenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2-Nitroaniline	ND		0.833	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
2-Nitrophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
3,3'-Dichlorobenzidine	ND		0.667	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
3 & 4 Methylphenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
3-Nitroaniline	ND		0.833	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4,6-Dinitro-2-methylphenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Bromophenyl phenyl ether	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Chloro-3-methylphenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Chlorophenyl phenyl ether	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Chloroaniline	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Nitroaniline	ND		0.833	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
4-Nitrophenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Acenaphthylene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Acenaphthene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Benzo[a]anthracene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Benzo[a]pyrene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Benzo[b]fluoranthene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Benzo[g,h,i]perylene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Benzo[k]fluoranthene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Anthracene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Bis(2-chloroethoxy)methane	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Bis(2-chloroethyl)ether	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Bis(2-ethylhexyl) phthalate	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
bis (2-chloroisopropyl) ether	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Butyl benzyl phthalate	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Carbazole	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Chrysene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Cresols	ND		0.666	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Dibenz(a,h)anthracene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Dibenzofuran	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Diethyl phthalate	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Dimethyl phthalate	ND		1.67	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Di-n-butyl phthalate	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Di-n-octyl phthalate	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Fluoranthene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Fluorene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Hexachlorobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Hexachlorobutadiene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Hexachlorocyclopentadiene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Hexachloroethane	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Isophorone	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Naphthalene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Nitrobenzene	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
N-Nitrosodi-n-propylamine	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-19587/1-A
Matrix: Solid
Analysis Batch: 19727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19587

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Pentachlorophenol	ND		0.833	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Phenanthrene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Phenol	ND		0.333	mg/Kg		09/13/12 09:16	09/13/12 21:38	1
Pyrene	ND		0.0670	mg/Kg		09/13/12 09:16	09/13/12 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 120	09/13/12 09:16	09/13/12 21:38	1
2-Fluorobiphenyl (Surr)	49		29 - 120	09/13/12 09:16	09/13/12 21:38	1
2-Fluorophenol (Surr)	46		10 - 120	09/13/12 09:16	09/13/12 21:38	1
Nitrobenzene-d5 (Surr)	46		27 - 120	09/13/12 09:16	09/13/12 21:38	1
Phenol-d5 (Surr)	45		10 - 120	09/13/12 09:16	09/13/12 21:38	1
Terphenyl-d14 (Surr)	71		13 - 120	09/13/12 09:16	09/13/12 21:38	1

Lab Sample ID: LCS 490-19587/2-A
Matrix: Solid
Analysis Batch: 19727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1.67	0.8991		mg/Kg		54	29 - 120
1,2-Dichlorobenzene	1.67	0.9875		mg/Kg		59	33 - 120
1,3-Dichlorobenzene	1.67	0.9911		mg/Kg		59	32 - 120
1,4-Dichlorobenzene	1.67	0.9719		mg/Kg		58	32 - 120
1-Methylnaphthalene	1.67	0.9596		mg/Kg		58	32 - 120
2,4,5-Trichlorophenol	1.67	1.205		mg/Kg		72	39 - 120
2,4,6-Trichlorophenol	1.67	1.207		mg/Kg		72	39 - 120
2,4-Dichlorophenol	1.67	0.9819		mg/Kg		59	32 - 120
2,4-Dimethylphenol	1.67	1.081		mg/Kg		65	32 - 120
2,4-Dinitrophenol	1.67	1.227		mg/Kg		74	23 - 142
2,4-Dinitrotoluene	1.67	1.256		mg/Kg		75	43 - 120
2,6-Dinitrotoluene	1.67	1.307		mg/Kg		78	43 - 120
2-Chloronaphthalene	1.67	1.112		mg/Kg		67	34 - 120
2-Chlorophenol	1.67	1.023		mg/Kg		61	32 - 120
2-Methylnaphthalene	1.67	0.9804		mg/Kg		59	28 - 120
2-Methylphenol	1.67	1.189		mg/Kg		71	36 - 120
2-Nitroaniline	1.67	1.249		mg/Kg		75	40 - 120
2-Nitrophenol	1.67	1.001		mg/Kg		60	29 - 120
3,3'-Dichlorobenzidine	1.67	1.217		mg/Kg		73	39 - 120
3 & 4 Methylphenol	1.67	1.126		mg/Kg		68	37 - 120
3-Nitroaniline	1.67	1.298		mg/Kg		78	42 - 120
4,6-Dinitro-2-methylphenol	1.67	1.158		mg/Kg		69	27 - 134
4-Bromophenyl phenyl ether	1.67	1.148		mg/Kg		69	40 - 120
4-Chloro-3-methylphenol	1.67	1.078		mg/Kg		65	38 - 120
4-Chlorophenyl phenyl ether	1.67	1.164		mg/Kg		70	42 - 120
4-Chloroaniline	1.67	1.098		mg/Kg		66	35 - 120
4-Nitroaniline	1.67	1.213		mg/Kg		73	43 - 120
4-Nitrophenol	1.67	1.216		mg/Kg		73	32 - 136
Acenaphthylene	1.67	1.219		mg/Kg		73	38 - 120
Acenaphthene	1.67	1.125		mg/Kg		67	36 - 120

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-19587/2-A
Matrix: Solid
Analysis Batch: 19727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	1.67	1.209		mg/Kg		73	45 - 120
Benzo[a]pyrene	1.67	1.240		mg/Kg		74	45 - 120
Benzo[b]fluoranthene	1.67	1.147		mg/Kg		69	42 - 120
Benzo[g,h,i]perylene	1.67	1.174		mg/Kg		70	38 - 120
Benzo[k]fluoranthene	1.67	1.215		mg/Kg		73	42 - 120
Anthracene	1.67	1.188		mg/Kg		71	46 - 124
Bis(2-chloroethoxy)methane	1.67	0.9879		mg/Kg		59	32 - 120
Bis(2-chloroethyl)ether	1.67	0.9772		mg/Kg		59	31 - 120
Bis(2-ethylhexyl) phthalate	1.67	1.310		mg/Kg		79	43 - 120
bis (2-chloroisopropyl) ether	1.67	1.027		mg/Kg		62	32 - 120
Butyl benzyl phthalate	1.67	1.254		mg/Kg		75	43 - 133
Carbazole	1.67	1.265		mg/Kg		76	44 - 120
Chrysene	1.67	1.154		mg/Kg		69	43 - 120
Cresols	3.33	2.315		mg/Kg		69	49 - 129
Dibenz(a,h)anthracene	1.67	1.142		mg/Kg		69	32 - 128
Dibenzofuran	1.67	1.208		mg/Kg		73	41 - 120
Diethyl phthalate	1.67	1.211		mg/Kg		73	41 - 122
Dimethyl phthalate	1.67	ND		mg/Kg		69	55 - 120
Di-n-butyl phthalate	1.67	1.204		mg/Kg		72	46 - 127
Di-n-octyl phthalate	1.67	1.325		mg/Kg		80	40 - 130
Fluoranthene	1.67	1.204		mg/Kg		72	46 - 120
Fluorene	1.67	1.184		mg/Kg		71	42 - 120
Hexachlorobenzene	1.67	1.162		mg/Kg		70	44 - 120
Hexachlorobutadiene	1.67	0.9634		mg/Kg		58	31 - 120
Hexachlorocyclopentadiene	1.67	0.9410		mg/Kg		56	24 - 120
Hexachloroethane	1.67	0.9591		mg/Kg		58	33 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.159		mg/Kg		70	41 - 121
Isophorone	1.67	0.9608		mg/Kg		58	33 - 120
Naphthalene	1.67	1.010		mg/Kg		61	32 - 120
Nitrobenzene	1.67	0.9668		mg/Kg		58	26 - 120
N-Nitrosodi-n-propylamine	1.67	1.130		mg/Kg		68	35 - 120
n-Nitrosodiphenylamine(as diphenylamine)	1.67	1.444		mg/Kg		87	52 - 140
Pentachlorophenol	1.67	1.187		mg/Kg		71	44 - 134
Phenanthrene	1.67	1.174		mg/Kg		70	45 - 120
Phenol	1.67	0.9797		mg/Kg		59	30 - 120
Pyrene	1.67	1.232		mg/Kg		74	43 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	68		10 - 120
2-Fluorobiphenyl (Surr)	55		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	47		27 - 120
Phenol-d5 (Surr)	54		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6232-B-1-C MS

Matrix: Solid

Analysis Batch: 19725

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19587

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND		1.65	0.9208		mg/Kg		56	14 - 120
1,2-Dichlorobenzene	ND		1.65	0.9481		mg/Kg		57	10 - 120
1,3-Dichlorobenzene	ND		1.65	0.9362		mg/Kg		57	10 - 120
1,4-Dichlorobenzene	ND		1.65	0.9087		mg/Kg		55	10 - 120
1-Methylnaphthalene	ND		1.65	0.9797		mg/Kg		59	10 - 120
2,4,5-Trichlorophenol	ND		1.65	1.010		mg/Kg		61	27 - 120
2,4,6-Trichlorophenol	ND		1.65	1.207		mg/Kg		73	24 - 122
2,4-Dichlorophenol	ND		1.65	0.9788		mg/Kg		59	17 - 120
2,4-Dimethylphenol	ND		1.65	1.147		mg/Kg		69	17 - 120
2,4-Dinitrophenol	ND		1.65	ND		mg/Kg		16	10 - 150
2,4-Dinitrotoluene	ND		1.65	1.033		mg/Kg		62	24 - 121
2,6-Dinitrotoluene	ND		1.65	1.201		mg/Kg		73	24 - 120
2-Chloronaphthalene	ND		1.65	1.138		mg/Kg		69	24 - 120
2-Chlorophenol	ND		1.65	1.032		mg/Kg		62	25 - 120
2-Methylnaphthalene	ND		1.65	1.033		mg/Kg		63	13 - 120
2-Methylphenol	ND		1.65	1.182		mg/Kg		72	23 - 120
2-Nitroaniline	ND		1.65	1.221		mg/Kg		74	31 - 120
2-Nitrophenol	ND		1.65	1.003		mg/Kg		61	23 - 120
3,3'-Dichlorobenzidine	ND		1.65	0.9639		mg/Kg		58	10 - 120
3 & 4 Methylphenol	ND		1.65	1.155		mg/Kg		70	19 - 120
3-Nitroaniline	ND		1.65	1.109		mg/Kg		67	31 - 120
4,6-Dinitro-2-methylphenol	ND		1.65	0.4058		mg/Kg		25	10 - 134
4-Bromophenyl phenyl ether	ND		1.65	1.115		mg/Kg		67	31 - 120
4-Chloro-3-methylphenol	ND		1.65	1.101		mg/Kg		67	21 - 120
4-Chlorophenyl phenyl ether	ND		1.65	1.092		mg/Kg		66	26 - 120
4-Chloroaniline	ND		1.65	1.069		mg/Kg		65	26 - 120
4-Nitroaniline	ND		1.65	0.9705		mg/Kg		59	28 - 120
4-Nitrophenol	ND		1.65	0.6820		mg/Kg		41	16 - 139
Acenaphthylene	ND		1.65	1.150		mg/Kg		70	25 - 120
Acenaphthene	ND		1.65	1.065		mg/Kg		64	19 - 120
Benzo[a]anthracene	ND		1.65	1.179		mg/Kg		71	23 - 120
Benzo[a]pyrene	ND		1.65	1.140		mg/Kg		69	15 - 128
Benzo[b]fluoranthene	ND		1.65	1.046		mg/Kg		63	12 - 133
Benzo[g,h,i]perylene	ND		1.65	0.9601		mg/Kg		58	22 - 120
Benzo[k]fluoranthene	ND		1.65	1.112		mg/Kg		67	28 - 120
Anthracene	ND		1.65	1.142		mg/Kg		69	28 - 125
Bis(2-chloroethoxy)methane	ND		1.65	0.9992		mg/Kg		60	24 - 120
Bis(2-chloroethyl)ether	ND		1.65	2.099	F	mg/Kg		127	22 - 120
Bis(2-ethylhexyl) phthalate	ND		1.65	1.325		mg/Kg		77	26 - 120
bis (2-chloroisopropyl) ether	ND		1.65	0.9798		mg/Kg		59	20 - 120
Butyl benzyl phthalate	ND		1.65	1.258		mg/Kg		76	24 - 133
Carbazole	ND		1.65	1.171		mg/Kg		71	25 - 123
Chrysene	ND		1.65	1.064		mg/Kg		64	20 - 120
Cresols	ND		3.31	2.337		mg/Kg		71	10 - 200
Dibenz(a,h)anthracene	ND		1.65	1.001		mg/Kg		61	12 - 128
Dibenzofuran	ND		1.65	1.130		mg/Kg		68	21 - 120
Diethyl phthalate	ND		1.65	1.076		mg/Kg		65	29 - 122
Dimethyl phthalate	ND		1.65	ND		mg/Kg		67	30 - 120
Di-n-butyl phthalate	ND		1.65	1.156		mg/Kg		70	29 - 126

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6232-B-1-C MS

Matrix: Solid

Analysis Batch: 19725

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19587

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Di-n-octyl phthalate	ND		1.65	1.357		mg/Kg		82	27 - 130
Fluoranthene	ND		1.65	1.090		mg/Kg		66	10 - 143
Fluorene	ND		1.65	1.094		mg/Kg		66	20 - 120
Hexachlorobenzene	ND		1.65	1.233		mg/Kg		70	25 - 120
Hexachlorobutadiene	ND		1.65	0.9971		mg/Kg		60	10 - 120
Hexachlorocyclopentadiene	ND		1.65	ND	F	mg/Kg		0	10 - 120
Hexachloroethane	ND		1.65	0.8644		mg/Kg		52	10 - 120
Indeno[1,2,3-cd]pyrene	ND		1.65	1.013		mg/Kg		61	22 - 121
Isophorone	ND		1.65	0.9241		mg/Kg		56	24 - 120
Naphthalene	ND		1.65	1.028		mg/Kg		62	10 - 120
Nitrobenzene	ND		1.65	0.9398		mg/Kg		57	19 - 120
N-Nitrosodi-n-propylamine	ND		1.65	1.047		mg/Kg		63	24 - 120
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.65	1.399		mg/Kg		85	26 - 150
Pentachlorophenol	ND		1.65	ND		mg/Kg		33	19 - 145
Phenanthrene	ND		1.65	1.124		mg/Kg		68	21 - 122
Phenol	ND		1.65	1.063		mg/Kg		64	15 - 120
Pyrene	ND		1.65	1.199		mg/Kg		73	20 - 123

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	57		10 - 120
2-Fluorobiphenyl (Surr)	37		29 - 120
2-Fluorophenol (Surr)	47		10 - 120
Nitrobenzene-d5 (Surr)	41		27 - 120
Phenol-d5 (Surr)	52		10 - 120
Terphenyl-d14 (Surr)	64		13 - 120

Lab Sample ID: 490-6232-B-1-D MSD

Matrix: Solid

Analysis Batch: 19725

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19587

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		1.65	0.9570		mg/Kg		58	14 - 120	4	50
1,2-Dichlorobenzene	ND		1.65	1.016		mg/Kg		62	10 - 120	7	50
1,3-Dichlorobenzene	ND		1.65	1.007		mg/Kg		61	10 - 120	7	50
1,4-Dichlorobenzene	ND		1.65	0.9954		mg/Kg		61	10 - 120	9	50
1-Methylnaphthalene	ND		1.65	1.031		mg/Kg		63	10 - 120	5	50
2,4,5-Trichlorophenol	ND		1.65	1.208		mg/Kg		73	27 - 120	18	50
2,4,6-Trichlorophenol	ND		1.65	1.346		mg/Kg		82	24 - 122	11	50
2,4-Dichlorophenol	ND		1.65	1.022		mg/Kg		62	17 - 120	4	50
2,4-Dimethylphenol	ND		1.65	1.182		mg/Kg		72	17 - 120	3	50
2,4-Dinitrophenol	ND		1.65	ND		mg/Kg		14	10 - 150	12	50
2,4-Dinitrotoluene	ND		1.65	1.135		mg/Kg		69	24 - 121	9	50
2,6-Dinitrotoluene	ND		1.65	1.293		mg/Kg		79	24 - 120	7	50
2-Chloronaphthalene	ND		1.65	1.190		mg/Kg		72	24 - 120	5	50
2-Chlorophenol	ND		1.65	1.103		mg/Kg		67	25 - 120	7	50
2-Methylnaphthalene	ND		1.65	1.066		mg/Kg		65	13 - 120	3	50
2-Methylphenol	ND		1.65	1.289		mg/Kg		78	23 - 120	9	50
2-Nitroaniline	ND		1.65	1.296		mg/Kg		79	31 - 120	6	50
2-Nitrophenol	ND		1.65	1.024		mg/Kg		62	23 - 120	2	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6232-B-1-D MSD

Matrix: Solid

Analysis Batch: 19725

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19587

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
3,3'-Dichlorobenzidine	ND		1.65	1.082		mg/Kg		66	10 - 120	12	50
3 & 4 Methylphenol	ND		1.65	1.252		mg/Kg		76	19 - 120	8	50
3-Nitroaniline	ND		1.65	1.286		mg/Kg		78	31 - 120	15	49
4,6-Dinitro-2-methylphenol	ND		1.65	ND		mg/Kg		18	10 - 134	29	50
4-Bromophenyl phenyl ether	ND		1.65	1.187		mg/Kg		72	31 - 120	6	37
4-Chloro-3-methylphenol	ND		1.65	1.175		mg/Kg		71	21 - 120	6	49
4-Chlorophenyl phenyl ether	ND		1.65	1.193		mg/Kg		73	26 - 120	9	50
4-Chloroaniline	ND		1.65	1.116		mg/Kg		68	26 - 120	4	50
4-Nitroaniline	ND		1.65	1.094		mg/Kg		66	28 - 120	12	49
4-Nitrophenol	ND		1.65	0.6446		mg/Kg		39	16 - 139	6	45
Acenaphthylene	ND		1.65	1.249		mg/Kg		76	25 - 120	8	50
Acenaphthene	ND		1.65	1.133		mg/Kg		69	19 - 120	6	50
Benzo[a]anthracene	ND		1.65	1.251		mg/Kg		76	23 - 120	6	50
Benzo[a]pyrene	ND		1.65	1.255		mg/Kg		76	15 - 128	10	50
Benzo[b]fluoranthene	ND		1.65	1.171		mg/Kg		71	12 - 133	11	50
Benzo[g,h,i]perylene	ND		1.65	1.032		mg/Kg		63	22 - 120	7	50
Benzo[k]fluoranthene	ND		1.65	1.222		mg/Kg		74	28 - 120	9	45
Anthracene	ND		1.65	1.211		mg/Kg		74	28 - 125	6	49
Bis(2-chloroethoxy)methane	ND		1.65	1.010		mg/Kg		61	24 - 120	1	50
Bis(2-chloroethyl)ether	ND		1.65	2.257	F	mg/Kg		137	22 - 120	7	50
Bis(2-ethylhexyl) phthalate	ND		1.65	2.276	F	mg/Kg		135	26 - 120	53	50
bis (2-chloroisopropyl) ether	ND		1.65	1.065		mg/Kg		65	20 - 120	8	50
Butyl benzyl phthalate	ND		1.65	1.327		mg/Kg		81	24 - 133	5	50
Carbazole	ND		1.65	1.255		mg/Kg		76	25 - 123	7	46
Chrysene	ND		1.65	1.151		mg/Kg		70	20 - 120	8	49
Cresols	ND		3.29	2.540		mg/Kg		77	10 - 200	8	50
Dibenz(a,h)anthracene	ND		1.65	1.067		mg/Kg		65	12 - 128	6	50
Dibenzofuran	ND		1.65	1.237		mg/Kg		75	21 - 120	9	50
Diethyl phthalate	ND		1.65	1.165		mg/Kg		71	29 - 122	8	45
Dimethyl phthalate	ND		1.65	ND		mg/Kg		70	30 - 120	4	46
Di-n-butyl phthalate	ND		1.65	1.178		mg/Kg		72	29 - 126	2	49
Di-n-octyl phthalate	ND		1.65	1.456		mg/Kg		88	27 - 130	7	50
Fluoranthene	ND		1.65	1.163		mg/Kg		71	10 - 143	6	50
Fluorene	ND		1.65	1.196		mg/Kg		73	20 - 120	9	50
Hexachlorobenzene	ND		1.65	1.304		mg/Kg		75	25 - 120	6	50
Hexachlorobutadiene	ND		1.65	1.015		mg/Kg		62	10 - 120	2	50
Hexachlorocyclopentadiene	ND		1.65	ND	F	mg/Kg		0	10 - 120	NC	50
Hexachloroethane	ND		1.65	0.9323		mg/Kg		57	10 - 120	8	50
Indeno[1,2,3-cd]pyrene	ND		1.65	1.081		mg/Kg		66	22 - 121	7	50
Isophorone	ND		1.65	0.9353		mg/Kg		57	24 - 120	1	50
Naphthalene	ND		1.65	1.058		mg/Kg		64	10 - 120	3	50
Nitrobenzene	ND		1.65	0.9843		mg/Kg		60	19 - 120	5	50
N-Nitrosodi-n-propylamine	ND		1.65	1.130		mg/Kg		69	24 - 120	8	50
n-Nitrosodiphenylamine(as diphenylamine)	ND		1.65	1.479		mg/Kg		90	26 - 150	6	50
Pentachlorophenol	ND		1.65	ND		mg/Kg		28	19 - 145	15	50
Phenanthrene	ND		1.65	1.194		mg/Kg		73	21 - 122	6	50
Phenol	ND		1.65	1.139		mg/Kg		69	15 - 120	7	50
Pyrene	ND		1.65	1.286		mg/Kg		78	20 - 123	7	50

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-6232-B-1-D MSD
Matrix: Solid
Analysis Batch: 19725

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 19587

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	63		10 - 120
2-Fluorobiphenyl (Surr)	43		29 - 120
2-Fluorophenol (Surr)	51		10 - 120
Nitrobenzene-d5 (Surr)	45		27 - 120
Phenol-d5 (Surr)	58		10 - 120
Terphenyl-d14 (Surr)	70		13 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: 490-6490-D-31-B MS
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 20326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
C6-C10	10.9		1040	980.4		mg/Kg	☼	94	56 - 130
Surrogate	MS MS		Limits						
%Recovery	Qualifier								
a,a,a-Trifluorotoluene	109		50 - 150						

Lab Sample ID: 490-6490-D-31-C MSD
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 20326

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
C6-C10	10.9		1010	1059		mg/Kg	☼	104	56 - 130	8	21
Surrogate	MSD MSD		Limits								
%Recovery	Qualifier										
a,a,a-Trifluorotoluene	106		50 - 150								

Lab Sample ID: MB 490-20614/19
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6-C10	ND		5.00	mg/Kg			09/17/12 17:43	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
a,a,a-Trifluorotoluene	113		50 - 150		09/17/12 17:43	1		

Lab Sample ID: MB 490-20614/20
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6-C10	ND		5.00	mg/Kg			09/17/12 18:02	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
a,a,a-Trifluorotoluene	98		50 - 150		09/17/12 18:02	1		

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-20614/13
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	10.0	9.788		mg/Kg		98	70 - 130
<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>LCS Qualifier</i>	<i>Limits</i>			
<i>a,a,a-Trifluorotoluene</i>	110			50 - 150			

Lab Sample ID: LCSD 490-20614/14
Matrix: Solid
Analysis Batch: 20614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	10.0	11.27		mg/Kg		113	70 - 130	14	21
<i>Surrogate</i>	<i>%Recovery</i>	<i>LCSD Qualifier</i>	<i>LCSD Qualifier</i>	<i>Limits</i>					
<i>a,a,a-Trifluorotoluene</i>	116			50 - 150					

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-19580/1-A
Matrix: Solid
Analysis Batch: 19647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19580

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		5.00	mg/Kg		09/13/12 09:12	09/13/12 21:49	1
C24-C40	ND		5.00	mg/Kg		09/13/12 09:12	09/13/12 21:49	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB Qualifier</i>	<i>MB Qualifier</i>	<i>Limits</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	53			50 - 150		09/13/12 09:12	09/13/12 21:49	1

Lab Sample ID: LCS 490-19580/2-A
Matrix: Solid
Analysis Batch: 19647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	40.0	35.58		mg/Kg		89	54 - 130
<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS Qualifier</i>	<i>LCS Qualifier</i>	<i>Limits</i>			
<i>o-Terphenyl (Surr)</i>	65			50 - 150			

Method: Moisture - Percent Moisture

Lab Sample ID: 490-6194-1 DU
Matrix: Solid
Analysis Batch: 19343

Client Sample ID: TPH-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14		15		%		4	20
Percent Moisture	14		15		%		4	20



QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 490-6194-1 DU
Matrix: Solid
Analysis Batch: 19343

Client Sample ID: TPH-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	86		85		%		0.6	20
Percent Solids	86		85		%		0.6	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

GC/MS VOA

Prep Batch: 19378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-5	VOC-5	Total/NA	Solid	5035	
490-6194-8	VOC-4	Total/NA	Solid	5035	

Prep Batch: 19381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-2	VOC-6	Total/NA	Solid	5035	
490-6194-5	VOC-5	Total/NA	Solid	5035	
490-6194-8	VOC-4	Total/NA	Solid	5035	

Analysis Batch: 19575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-2	VOC-6	Total/NA	Solid	8260B	19381
490-6194-5	VOC-5	Total/NA	Solid	8260B	19378
490-6194-8	VOC-4	Total/NA	Solid	8260B	19378
LCS 490-19575/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-19575/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-19575/6	Method Blank	Total/NA	Solid	8260B	
MB 490-19575/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 19868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-2	VOC-6	Total/NA	Solid	8260B	19381
490-6194-5	VOC-5	Total/NA	Solid	8260B	19381
490-6194-8	VOC-4	Total/NA	Solid	8260B	19381
LCS 490-19868/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-19868/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-19868/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 20311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6490-A-31-B MS	Matrix Spike	Total/NA	Solid	5035	
490-6490-A-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-5	VOC-5	Total/NA	Solid	8260B	19381
490-6194-8	VOC-4	Total/NA	Solid	8260B	19381
490-6490-A-31-B MS	Matrix Spike	Total/NA	Solid	8260B	20311
490-6490-A-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	20311
LCS 490-20787/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-20787/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-20787/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 19587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-3	SVOC-6	Total/NA	Solid	3550C	
490-6194-6	SVOC-5	Total/NA	Solid	3550C	
490-6194-9	SVOC-4	Total/NA	Solid	3550C	
490-6232-B-1-C MS	Matrix Spike	Total/NA	Solid	3550C	
490-6232-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

GC/MS Semi VOA (Continued)

Prep Batch: 19587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-19587/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-19587/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 19725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6232-B-1-C MS	Matrix Spike	Total/NA	Solid	8270D	19587
490-6232-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	19587

Analysis Batch: 19727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-3	SVOC-6	Total/NA	Solid	8270D	19587
490-6194-6	SVOC-5	Total/NA	Solid	8270D	19587
490-6194-9	SVOC-4	Total/NA	Solid	8270D	19587
LCS 490-19587/2-A	Lab Control Sample	Total/NA	Solid	8270D	19587
MB 490-19587/1-A	Method Blank	Total/NA	Solid	8270D	19587

Analysis Batch: 20323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-3	SVOC-6	Total/NA	Solid	8270D	19587
490-6194-3	SVOC-6	Total/NA	Solid	8270D	19587
490-6194-6	SVOC-5	Total/NA	Solid	8270D	19587
490-6194-6	SVOC-5	Total/NA	Solid	8270D	19587
490-6194-9	SVOC-4	Total/NA	Solid	8270D	19587

Analysis Batch: 20395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-3	SVOC-6	Total/NA	Solid	8270D	19587

GC VOA

Prep Batch: 19373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-1	TPH-6	Total/NA	Solid	5035	
490-6194-4	TPH-5	Total/NA	Solid	5035	
490-6194-7	TPH-4	Total/NA	Solid	5035	

Prep Batch: 20326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6490-D-31-B MS	Matrix Spike	Total/NA	Solid	5035	
490-6490-D-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-1	TPH-6	Total/NA	Solid	8015C	19373
490-6194-4	TPH-5	Total/NA	Solid	8015C	19373
490-6194-7	TPH-4	Total/NA	Solid	8015C	19373
490-6490-D-31-B MS	Matrix Spike	Total/NA	Solid	8015C	20326
490-6490-D-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	20326
LCS 490-20614/13	Lab Control Sample	Total/NA	Solid	8015C	
LCSD 490-20614/14	Lab Control Sample Dup	Total/NA	Solid	8015C	
MB 490-20614/19	Method Blank	Total/NA	Solid	8015C	
MB 490-20614/20	Method Blank	Total/NA	Solid	8015C	



QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

GC Semi VOA

Prep Batch: 19580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-1	TPH-6	Total/NA	Solid	3550C	
490-6194-4	TPH-5	Total/NA	Solid	3550C	
490-6194-7	TPH-4	Total/NA	Solid	3550C	
LCS 490-19580/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-19580/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 19647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-19580/2-A	Lab Control Sample	Total/NA	Solid	8015C	19580
MB 490-19580/1-A	Method Blank	Total/NA	Solid	8015C	19580

Analysis Batch: 20392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-1	TPH-6	Total/NA	Solid	8015C	19580
490-6194-1	TPH-6	Total/NA	Solid	8015C	19580
490-6194-4	TPH-5	Total/NA	Solid	8015C	19580
490-6194-4	TPH-5	Total/NA	Solid	8015C	19580
490-6194-7	TPH-4	Total/NA	Solid	8015C	19580

General Chemistry

Analysis Batch: 19343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-6194-1	TPH-6	Total/NA	Solid	Moisture	
490-6194-1 DU	TPH-6	Total/NA	Solid	Moisture	
490-6194-2	VOC-6	Total/NA	Solid	Moisture	
490-6194-3	SVOC-6	Total/NA	Solid	Moisture	
490-6194-4	TPH-5	Total/NA	Solid	Moisture	
490-6194-5	VOC-5	Total/NA	Solid	Moisture	
490-6194-6	SVOC-5	Total/NA	Solid	Moisture	
490-6194-7	TPH-4	Total/NA	Solid	Moisture	
490-6194-8	VOC-4	Total/NA	Solid	Moisture	
490-6194-9	SVOC-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: TPH-6

Lab Sample ID: 490-6194-1

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19373	09/12/12 12:51	TP	TAL NSH
Total/NA	Analysis	8015C		5	20614	09/18/12 04:19	BH	TAL NSH
Total/NA	Prep	3550C			19580	09/13/12 09:57	AK	TAL NSH
Total/NA	Analysis	8015C		100	20392	09/16/12 17:15	JF	TAL NSH
Total/NA	Analysis	8015C		200	20392	09/16/12 21:56	JF	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: VOC-6

Lab Sample ID: 490-6194-2

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19381	09/12/12 13:03	TP	TAL NSH
Total/NA	Analysis	8260B		20	19575	09/13/12 18:54	KK	TAL NSH
Total/NA	Analysis	8260B		400	19868	09/14/12 14:56	KK	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: SVOC-6

Lab Sample ID: 490-6194-3

Date Collected: 09/07/12 13:20

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			19587	09/13/12 10:58	AK	TAL NSH
Total/NA	Analysis	8270D		5	19727	09/14/12 04:05	BS	TAL NSH
Total/NA	Analysis	8270D		10	20323	09/15/12 22:45	KP	TAL NSH
Total/NA	Analysis	8270D		50	20323	09/15/12 23:08	KP	TAL NSH
Total/NA	Analysis	8270D		250	20395	09/16/12 15:57	KP	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: TPH-5

Lab Sample ID: 490-6194-4

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19373	09/12/12 12:51	TP	TAL NSH
Total/NA	Analysis	8015C		1	20614	09/18/12 04:00	BH	TAL NSH
Total/NA	Prep	3550C			19580	09/13/12 11:07	AK	TAL NSH
Total/NA	Analysis	8015C		20	20392	09/16/12 17:37	JF	TAL NSH
Total/NA	Analysis	8015C		40	20392	09/16/12 21:36	JF	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: VOC-5

Lab Sample ID: 490-6194-5

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19378	09/12/12 12:59	TP	TAL NSH
Total/NA	Analysis	8260B		1	19575	09/13/12 17:21	KK	TAL NSH
Total/NA	Prep	5035			19381	09/12/12 13:03	TP	TAL NSH
Total/NA	Analysis	8260B		1	19868	09/14/12 13:23	KK	TAL NSH
Total/NA	Analysis	8260B		10	20787	09/18/12 12:23	KK	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: SVOC-5

Lab Sample ID: 490-6194-6

Date Collected: 09/07/12 14:00

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			19587	09/13/12 10:58	AK	TAL NSH
Total/NA	Analysis	8270D		1	19727	09/14/12 04:28	BS	TAL NSH
Total/NA	Analysis	8270D		10	20323	09/15/12 23:31	KP	TAL NSH
Total/NA	Analysis	8270D		100	20323	09/15/12 23:53	KP	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: TPH-4

Lab Sample ID: 490-6194-7

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19373	09/12/12 12:51	TP	TAL NSH
Total/NA	Analysis	8015C		1	20614	09/18/12 03:38	BH	TAL NSH
Total/NA	Prep	3550C			19580	09/13/12 11:07	AK	TAL NSH
Total/NA	Analysis	8015C		10	20392	09/16/12 18:00	JF	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Client Sample ID: VOC-4

Lab Sample ID: 490-6194-8

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			19378	09/12/12 12:59	TP	TAL NSH
Total/NA	Analysis	8260B		1	19575	09/13/12 17:52	KK	TAL NSH
Total/NA	Prep	5035			19381	09/12/12 13:03	TP	TAL NSH
Total/NA	Analysis	8260B		1	19868	09/14/12 13:54	KK	TAL NSH
Total/NA	Analysis	8260B		20	20787	09/18/12 12:52	KK	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Client Sample ID: SVOC-4

Lab Sample ID: 490-6194-9

Date Collected: 09/07/12 14:40

Matrix: Solid

Date Received: 09/11/12 08:35

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			19587	09/13/12 10:58	AK	TAL NSH
Total/NA	Analysis	8270D		1	19727	09/14/12 04:50	BS	TAL NSH
Total/NA	Analysis	8270D		10	20323	09/16/12 00:16	KP	TAL NSH
Total/NA	Analysis	Moisture		1	19343	09/12/12 11:18	RS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12090210

TestAmerica Job ID: 490-6194-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	09-30-13
New Hampshire	NELAC	1	2963	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

Analytical Laboratory Request Form (ARF)

<i>(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.</i>		
<i>(2) Save the file & e-mail to:</i>		labcustomer@duke-energy.com
Questions / Problems Call:		704-875-5245
Customer Information		
<u>Name</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Andy Clark	704-357-5630	704-953-6833
<u>Fax</u>	<u>e-Mail Address</u>	
	andy.clark@amec.com	
Accounting Fields		
** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. **	<u>Field Type</u>	<u>Specific Field</u>
Sampling Information		
<u>Sampling Personnel / Contractor</u>	<u>Scheduled Sampling Date</u>	<u>Date Sample Kit Needed</u>
AMEC	9/7/2012	9/6/2012
Shipping Address for Kit		
<u>Name</u>	<u>Phone</u>	<u>Mail Code</u>
Mike Flanik	704-357-5617	704-659-1232
<u>Street Address - street address and town needed</u>	<u>State</u>	<u>Zip Code</u>
2801 Yorkmont Rd, Charlotte	NC	28208
Reporting		
<u>Report Due Date</u>	<u>Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard</u>	
9/28/2012	.pdf and excel	
<u>Report To (e-Mail Address 1)</u>	<u>Report To (e-Mail Address 2)</u>	<u>Report to (e-Mail Address 3)</u>
andy.clark@amec.com	angela.adams@amec.com	
Project Specifics		
<u>Project Name</u>		<u>Program Type</u>
Spartanburg MGP		
<u>Site, Location or Station</u>	<u>State</u>	<u>Approximate Number of Days Sampling is Scheduled</u>
Pine Street, Spartanburg	SC	1
<u>Notes, Special Requests, Required Contract Lab to use, etc. (LIMS Job Number-Duke Lab Provides)</u>		
AMEC can pick sample jars up from Duke. TPH, VOC, and SVOC analysis. Also, request 24 x 16 oz jars to collect additional soil for bench scale testing. The 16 oz jars will be sent to FMC Corporation for the bench testing.		
<u>Bottles</u>	<u>Matrix</u>	<u>Variables, Methods</u>
4	Soil	TPH - 5035/8015M
4	Soil	VOCs - 8260 (Prep 5035) - Encore kits
4	Soil	SVOCs - 8260
24 x 16 oz jars	Soil	For bench testing (see note above)

COOLER RECEIPT FORM



Cooler Received/Opened On 9/11/2012 @ 8:35

490-6194 Chain of

1. Tracking # 5448 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 1.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...#

Chain of Custody Record

Temperature on Receipt _____
 Drinking Water? Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: AMEL
 Address: Yorkmont
 City: C1T State: NC Zip Code: _____
 Project Manager: Shaali Brown-Nashville Lab
 Telephone Number (Area Code)/Fax Number: _____
 Date: 9/11/12
 Chain of Custody Number: 194095

Project Name and Location (State): Pine Street Spartanburg
 Contract/Purchase Order/Quote No.: 2251674
 Site Contact: M. Plunk
 Lab Contact: _____
 Matrix: _____
 Containers & Preservatives: _____
 Analysis (Attach list if more space is needed): TPA Qualitative Pigment, VOC, SUOC
 Loc: 490
 6194
 Page 1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Analysis (Attach list if more space is needed)			
			Air	Aqueous	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
TPH-C	9/7/12	1320			X										
VOC-B		1326													
SUOC-B		1316													
TPH-S		1400													
VOC-S		1400													
SUOC-S		1400													
TPH-4		1440													
VOC-4		1440													
SUOC-4		1446													

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Comments: _____
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-6194-1

Login Number: 6194

List Source: TestAmerica Nashville

List Number: 1

Creator: Buckingham, Paul

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-8013-1

Client Project/Site: Pine Street MGP J12100049

Revision: 1

For:

Duke Energy Corporation

13339 Hagers Ferry Road

Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:

11/26/2013 2:28:26 PM

Shali Brown, Project Manager II

(615)301-5031

shali.brown@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8013-1	OS 5S	Solid	09/26/12 16:25	09/29/12 08:30
490-8013-2	OS 10S	Solid	09/26/12 17:10	09/29/12 08:30
490-8013-3	OS 20S	Solid	09/26/12 08:45	09/29/12 08:30

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Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Job ID: 490-8013-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP J12100049

Report Number: 490-8013-1

112613 Revised Report at client request to include results for Ethylbenzene on sample -3 that was missing from the original report. This report replaces the report previously generated on 101512.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 09/29/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OS 5S (490-8013-1), OS 10S (490-8013-2) and OS 20S (490-8013-3) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 10/02/2012 and analyzed on 10/05/2012, 10/06/2012 and 10/09/2012.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 26095, 25773, and 26524.

4-Bromofluorobenzene (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for OS 5S (490-8013-1). Evidence of matrix interference is present.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Job ID: 490-8013-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

The results of 4-Isopropyltoluene may be elevated due to the previous sample. This sample was not rerun at a low level due to its matrix.

1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,3-Dichloropropane and Tetrachloroethene failed the recovery criteria high for LCS 490-26095/3. Tetrachloroethene failed the recovery criteria high for LCSD 490-25773/4. 1,1-Dichloroethene and Tetrachloroethene failed the recovery criteria high for LCSD 490-26095/4. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): OS 5S (490-8013-1), and OS 20S (490-8013-3).

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples OS 5S (490-8013-1), OS 10S (490-8013-2) and OS 20S (490-8013-3) were analyzed for Semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 10/02/2012 and analyzed on 10/02/2012 and 10/03/2012.

Method(s) 8270D: Matrix spikes for batch 24824 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

Samples OS 5S (490-8013-1)[20X], OS 5S (490-8013-1)[5X], OS 10S (490-8013-2)[5X], OS 20S (490-8013-3)[20X] and OS 20S (490-8013-3)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples OS 5S (490-8013-1), OS 10S (490-8013-2) and OS 20S (490-8013-3) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015C - GRO. The samples were prepared on 10/02/2012 and analyzed on 10/02/2012 and 10/03/2012.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples OS 5S (490-8013-1), OS 10S (490-8013-2) and OS 20S (490-8013-3) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 10/02/2012 and analyzed on 10/03/2012 and 10/04/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

o-Terphenyl (Surr) failed the surrogate recovery criteria high for OS 5S (490-8013-1). o-Terphenyl (Surr) failed the surrogate recovery criteria high for OS 10S (490-8013-2). o-Terphenyl (Surr) failed the surrogate recovery criteria high for OS 20S (490-8013-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Samples OS 5S (490-8013-1)[5X], OS 10S (490-8013-2)[2X] and OS 20S (490-8013-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8015C: The following sample(s) contained a hydrocarbon pattern which resembles the Diesel Fuel #2 pattern used by the laboratory for quantitative purposes: OS 10S (490-8013-2), OS 20S (490-8013-3), OS 5S (490-8013-1).

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples OS 5S (490-8013-1), OS 10S (490-8013-2) and OS 20S (490-8013-3) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 10/01/2012.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Job ID: 490-8013-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

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Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 5S

Lab Sample ID: 490-8013-1

Date Collected: 09/26/12 16:25

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1,1-Trichloroethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,1,1-Trichloroethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1,2,2-Tetrachloroethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1,2-Trichloroethane	ND	*	0.718	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1-Dichloroethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,1-Dichloroethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Diisopropyl ether	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Diisopropyl ether	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1-Dichloroethene	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,1-Dichloroethene	ND	*	0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,1-Dichloropropene	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,1-Dichloropropene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2,3-Trichlorobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2,3-Trichloropropane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2,4-Trichlorobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2,4-Trimethylbenzene	123		2.87	mg/Kg	*	10/02/12 11:32	10/06/12 12:49	20
1,2-Dibromo-3-Chloropropane	ND		0.718	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2-Dibromoethane (EDB)	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2-Dichlorobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2-Dichloroethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,2-Dichloroethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,2-Dichloropropane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
1,2-Dichloropropane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,3,5-Trimethylbenzene	38.5		2.87	mg/Kg	*	10/02/12 11:32	10/06/12 12:49	20
1,3-Dichlorobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,3-Dichloropropane	ND	*	0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
1,4-Dichlorobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
2,2-Dichloropropane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
2,2-Dichloropropane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
2-Butanone (MEK)	ND		0.0556	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
2-Butanone (MEK)	ND		7.18	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
2-Chlorotoluene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
2-Hexanone	ND		7.18	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
4-Chlorotoluene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
4-Methyl-2-pentanone (MIBK)	ND		7.18	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Acetone	0.110		0.0556	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Acetone	ND		7.18	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Benzene	0.0314		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Benzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Bromobenzene	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Bromochloromethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Bromochloromethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Bromodichloromethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Bromodichloromethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Bromoform	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Bromomethane	ND		0.00222	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1
Bromomethane	ND		0.287	mg/Kg	*	10/02/12 11:32	10/06/12 19:20	2
Carbon disulfide	0.00788		0.00556	mg/Kg	*	10/02/12 11:36	10/05/12 15:38	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 55

Lab Sample ID: 490-8013-1

Date Collected: 09/26/12 16:25

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		0.718	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Carbon tetrachloride	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Carbon tetrachloride	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Chlorobenzene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Chlorodibromomethane	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Chloroethane	ND		0.00556	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Chloroethane	ND		0.718	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Chloroform	0.0136		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Chloroform	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Chloromethane	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Chloromethane	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
cis-1,2-Dichloroethene	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
cis-1,2-Dichloroethene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
cis-1,3-Dichloropropene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Dibromomethane	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Dibromomethane	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Dichlorodifluoromethane	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Dichlorodifluoromethane	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Ethylbenzene	63.4		2.87	mg/Kg	☼	10/02/12 11:32	10/06/12 12:49	20
Hexachlorobutadiene	ND		0.718	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Isopropylbenzene	16.1		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Methyl tert-butyl ether	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Methyl tert-butyl ether	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Methylene Chloride	ND		0.0111	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Methylene Chloride	ND		1.44	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Naphthalene	1460		71.8	mg/Kg	☼	10/02/12 11:32	10/06/12 13:19	200
n-Butylbenzene	12.4		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
N-Propylbenzene	8.11		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
p-Isopropyltoluene	8.57		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
sec-Butylbenzene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Styrene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
tert-Butylbenzene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Tetrachloroethene	ND *		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Toluene	0.565		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
trans-1,2-Dichloroethene	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
trans-1,2-Dichloroethene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
trans-1,3-Dichloropropene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Trichloroethene	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Trichloroethene	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Trichlorofluoromethane	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Trichlorofluoromethane	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Vinyl chloride	ND		0.00222	mg/Kg	☼	10/02/12 11:36	10/05/12 15:38	1
Vinyl chloride	ND		0.287	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2
Xylenes, Total	40.6		0.718	mg/Kg	☼	10/02/12 11:32	10/06/12 19:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130	10/02/12 11:36	10/05/12 15:38	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 130	10/02/12 11:32	10/06/12 12:49	20
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	10/02/12 11:32	10/06/12 13:19	200
1,2-Dichloroethane-d4 (Surr)	80		70 - 130	10/02/12 11:32	10/06/12 19:20	2

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 55

Lab Sample ID: 490-8013-1

Date Collected: 09/26/12 16:25

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	214	X	70 - 130	10/02/12 11:36	10/05/12 15:38	1
4-Bromofluorobenzene (Surr)	84		70 - 130	10/02/12 11:32	10/06/12 12:49	20
4-Bromofluorobenzene (Surr)	85		70 - 130	10/02/12 11:32	10/06/12 13:19	200
4-Bromofluorobenzene (Surr)	91		70 - 130	10/02/12 11:32	10/06/12 19:20	2
Dibromofluoromethane (Surr)	107		70 - 130	10/02/12 11:36	10/05/12 15:38	1
Dibromofluoromethane (Surr)	86		70 - 130	10/02/12 11:32	10/06/12 12:49	20
Dibromofluoromethane (Surr)	86		70 - 130	10/02/12 11:32	10/06/12 13:19	200
Dibromofluoromethane (Surr)	85		70 - 130	10/02/12 11:32	10/06/12 19:20	2
Toluene-d8 (Surr)	329	X	70 - 130	10/02/12 11:36	10/05/12 15:38	1
Toluene-d8 (Surr)	116		70 - 130	10/02/12 11:32	10/06/12 12:49	20
Toluene-d8 (Surr)	116		70 - 130	10/02/12 11:32	10/06/12 13:19	200
Toluene-d8 (Surr)	111		70 - 130	10/02/12 11:32	10/06/12 19:20	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
1,2-Dichlorobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
1,3-Dichlorobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
1,4-Dichlorobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
1-Methylnaphthalene	28.0		1.63	mg/Kg	☼	10/02/12 10:52	10/03/12 17:09	20
2,4,5-Trichlorophenol	ND		1.01	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,4,6-Trichlorophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,4-Dichlorophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,4-Dimethylphenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,4-Dinitrophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,4-Dinitrotoluene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2,6-Dinitrotoluene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2-Chloronaphthalene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2-Chlorophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2-Methylnaphthalene	42.3		1.63	mg/Kg	☼	10/02/12 10:52	10/03/12 17:09	20
2-Methylphenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2-Nitroaniline	ND		1.01	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
2-Nitrophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
3,3'-Dichlorobenzidine	ND		0.810	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
3 & 4 Methylphenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
3-Nitroaniline	ND		1.01	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4,6-Dinitro-2-methylphenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Bromophenyl phenyl ether	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Chloro-3-methylphenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Chlorophenyl phenyl ether	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Chloroaniline	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Nitroaniline	ND		1.01	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
4-Nitrophenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Acenaphthylene	1.33		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Acenaphthene	12.3		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5
Benzo[a]anthracene	2.47		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Benzo[a]pyrene	2.22		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Benzo[b]fluoranthene	1.41		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Benzo[g,h,i]perylene	0.764		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 55

Lab Sample ID: 490-8013-1

Date Collected: 09/26/12 16:25

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	1.11		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Anthracene	4.94		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5
Bis(2-chloroethoxy)methane	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Bis(2-chloroethyl)ether	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Bis(2-ethylhexyl) phthalate	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
bis (2-chloroisopropyl) ether	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Butyl benzyl phthalate	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Carbazole	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Chrysene	1.94		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Cresols	ND		0.809	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Dibenz(a,h)anthracene	0.246		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Dibenzofuran	1.95		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Diethyl phthalate	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Dimethyl phthalate	ND		2.03	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Di-n-butyl phthalate	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Di-n-octyl phthalate	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Fluoranthene	5.00		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5
Fluorene	6.03		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5
Hexachlorobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Hexachlorobutadiene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Hexachlorocyclopentadiene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Hexachloroethane	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Indeno[1,2,3-cd]pyrene	0.628		0.0814	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Isophorone	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Naphthalene	64.6		1.63	mg/Kg	☼	10/02/12 10:52	10/03/12 17:09	20
Nitrobenzene	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
N-Nitrosodi-n-propylamine	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Pentachlorophenol	ND		1.01	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Phenanthrene	17.2		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5
Phenol	ND		0.405	mg/Kg	☼	10/02/12 10:52	10/02/12 21:51	1
Pyrene	7.98		0.407	mg/Kg	☼	10/02/12 10:52	10/03/12 16:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120	10/02/12 10:52	10/02/12 21:51	1
2-Fluorobiphenyl (Surr)	54		29 - 120	10/02/12 10:52	10/02/12 21:51	1
2-Fluorophenol (Surr)	57		10 - 120	10/02/12 10:52	10/02/12 21:51	1
Nitrobenzene-d5 (Surr)	66		27 - 120	10/02/12 10:52	10/02/12 21:51	1
Phenol-d5 (Surr)	61		10 - 120	10/02/12 10:52	10/02/12 21:51	1
Terphenyl-d14 (Surr)	78		13 - 120	10/02/12 10:52	10/02/12 21:51	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	563		6.12	mg/Kg	☼	10/02/12 11:26	10/02/12 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		50 - 150	10/02/12 11:26	10/02/12 23:49	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 5S

Lab Sample ID: 490-8013-1

Date Collected: 09/26/12 16:25

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 80.1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	642		30.9	mg/Kg	☼	10/02/12 08:07	10/04/12 13:27	5
C24-C40	88.0		6.19	mg/Kg	☼	10/02/12 08:07	10/03/12 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	416	X	50 - 150			10/02/12 08:07	10/03/12 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	%			10/01/12 09:03	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 10S

Lab Sample ID: 490-8013-2

Date Collected: 09/26/12 17:10

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1,1-Trichloroethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1,2-Trichloroethane	ND		0.00583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1-Dichloroethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Diisopropyl ether	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1-Dichloroethene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,1-Dichloropropene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2,3-Trichlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2,3-Trichloropropane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2,4-Trichlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2,4-Trimethylbenzene	23.4		0.281	mg/Kg	*	10/02/12 11:32	10/06/12 18:20	2
1,2-Dibromo-3-Chloropropane	ND		0.00583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2-Dibromoethane (EDB)	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2-Dichlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2-Dichloroethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,2-Dichloropropane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,3,5-Trimethylbenzene	11.5		0.281	mg/Kg	*	10/02/12 11:32	10/06/12 18:20	2
1,3-Dichlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,3-Dichloropropane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
1,4-Dichlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
2,2-Dichloropropane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
2-Butanone (MEK)	ND		0.0583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
2-Chlorotoluene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
2-Hexanone	ND		0.0583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
4-Chlorotoluene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Acetone	ND		0.0583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Benzene	0.00704		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Bromobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Bromochloromethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Bromodichloromethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Bromoform	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Bromomethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Carbon disulfide	ND		0.00583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Carbon tetrachloride	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Chlorobenzene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Chlorodibromomethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Chloroethane	ND		0.00583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Chloroform	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Chloromethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
cis-1,2-Dichloroethene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
cis-1,3-Dichloropropene	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Dibromomethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Dichlorodifluoromethane	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Ethylbenzene	8.16		0.281	mg/Kg	*	10/02/12 11:32	10/06/12 18:20	2
Hexachlorobutadiene	ND		0.00583	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1
Isopropylbenzene	3.27		0.281	mg/Kg	*	10/02/12 11:32	10/06/12 18:20	2
Methyl tert-butyl ether	ND		0.00233	mg/Kg	*	10/02/12 11:36	10/05/12 16:08	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 10S

Lab Sample ID: 490-8013-2

Date Collected: 09/26/12 17:10

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0117	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Naphthalene	331		70.3	mg/Kg	☼	10/02/12 11:32	10/09/12 08:39	200
n-Butylbenzene	0.132		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
N-Propylbenzene	0.123		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
p-Isopropyltoluene	0.120		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
sec-Butylbenzene	0.00932		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Styrene	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
tert-Butylbenzene	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Tetrachloroethene	ND *		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Toluene	0.0549		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
trans-1,2-Dichloroethene	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
trans-1,3-Dichloropropene	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Trichloroethene	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Trichlorofluoromethane	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Vinyl chloride	ND		0.00233	mg/Kg	☼	10/02/12 11:36	10/05/12 16:08	1
Xylenes, Total	5.76		0.703	mg/Kg	☼	10/02/12 11:32	10/06/12 18:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	10/02/12 11:36	10/05/12 16:08	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	10/02/12 11:32	10/06/12 18:20	2
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	10/02/12 11:32	10/09/12 08:39	200
4-Bromofluorobenzene (Surr)	113		70 - 130	10/02/12 11:36	10/05/12 16:08	1
4-Bromofluorobenzene (Surr)	84		70 - 130	10/02/12 11:32	10/06/12 18:20	2
4-Bromofluorobenzene (Surr)	94		70 - 130	10/02/12 11:32	10/09/12 08:39	200
Dibromofluoromethane (Surr)	100		70 - 130	10/02/12 11:36	10/05/12 16:08	1
Dibromofluoromethane (Surr)	87		70 - 130	10/02/12 11:32	10/06/12 18:20	2
Dibromofluoromethane (Surr)	97		70 - 130	10/02/12 11:32	10/09/12 08:39	200
Toluene-d8 (Surr)	115		70 - 130	10/02/12 11:36	10/05/12 16:08	1
Toluene-d8 (Surr)	106		70 - 130	10/02/12 11:32	10/06/12 18:20	2
Toluene-d8 (Surr)	109		70 - 130	10/02/12 11:32	10/09/12 08:39	200

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
1,2-Dichlorobenzene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
1,3-Dichlorobenzene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
1,4-Dichlorobenzene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
1-Methylnaphthalene	4.54		0.398	mg/Kg	☼	10/02/12 10:52	10/03/12 17:32	5
2,4,5-Trichlorophenol	ND		0.991	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,4,6-Trichlorophenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,4-Dichlorophenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,4-Dimethylphenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,4-Dinitrophenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,4-Dinitrotoluene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2,6-Dinitrotoluene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2-Chloronaphthalene	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2-Chlorophenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2-Methylnaphthalene	5.24		0.398	mg/Kg	☼	10/02/12 10:52	10/03/12 17:32	5
2-Methylphenol	ND		0.396	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1
2-Nitroaniline	ND		0.991	mg/Kg	☼	10/02/12 10:52	10/02/12 22:14	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 10S

Lab Sample ID: 490-8013-2

Date Collected: 09/26/12 17:10

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
3,3'-Dichlorobenzidine	ND		0.793	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
3 & 4 Methylphenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
3-Nitroaniline	ND		0.991	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4,6-Dinitro-2-methylphenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Bromophenyl phenyl ether	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Chloro-3-methylphenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Chlorophenyl phenyl ether	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Chloroaniline	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Nitroaniline	ND		0.991	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
4-Nitrophenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Acenaphthylene	0.266		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Acenaphthene	2.58		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Benzo[a]anthracene	0.371		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Benzo[a]pyrene	0.335		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Benzo[b]fluoranthene	0.173		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Benzo[g,h,i]perylene	0.116		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Benzo[k]fluoranthene	0.220		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Anthracene	0.919		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Bis(2-chloroethoxy)methane	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Bis(2-chloroethyl)ether	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Bis(2-ethylhexyl) phthalate	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
bis (2-chloroisopropyl) ether	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Butyl benzyl phthalate	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Carbazole	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Chrysene	0.287		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Cresols	ND		0.792	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Dibenz(a,h)anthracene	ND		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Dibenzofuran	0.407		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Diethyl phthalate	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Dimethyl phthalate	ND		1.99	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Di-n-butyl phthalate	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Di-n-octyl phthalate	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Fluoranthene	0.902		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Fluorene	1.29		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Hexachlorobenzene	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Hexachlorobutadiene	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Hexachlorocyclopentadiene	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Hexachloroethane	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Indeno[1,2,3-cd]pyrene	0.0929		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Isophorone	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Naphthalene	11.6		0.398	mg/Kg	*	10/02/12 10:52	10/03/12 17:32	5
Nitrobenzene	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
N-Nitrosodi-n-propylamine	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Pentachlorophenol	ND		0.991	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Phenanthrene	3.44		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Phenol	ND		0.396	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1
Pyrene	1.44		0.0797	mg/Kg	*	10/02/12 10:52	10/02/12 22:14	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 10S

Lab Sample ID: 490-8013-2

Date Collected: 09/26/12 17:10

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 81.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120	10/02/12 10:52	10/02/12 22:14	1
2-Fluorobiphenyl (Surr)	62		29 - 120	10/02/12 10:52	10/02/12 22:14	1
2-Fluorophenol (Surr)	58		10 - 120	10/02/12 10:52	10/02/12 22:14	1
Nitrobenzene-d5 (Surr)	65		27 - 120	10/02/12 10:52	10/02/12 22:14	1
Phenol-d5 (Surr)	65		10 - 120	10/02/12 10:52	10/02/12 22:14	1
Terphenyl-d14 (Surr)	82		13 - 120	10/02/12 10:52	10/02/12 22:14	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	91.5		5.74	mg/Kg	☼	10/02/12 11:26	10/03/12 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150	10/02/12 11:26	10/03/12 00:10	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	262		12.1	mg/Kg	☼	10/02/12 08:07	10/04/12 13:41	2
C24-C40	49.3		6.04	mg/Kg	☼	10/02/12 08:07	10/03/12 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	313	X	50 - 150	10/02/12 08:07	10/03/12 22:34	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10	%			10/01/12 09:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 20S

Lab Sample ID: 490-8013-3

Date Collected: 09/26/12 08:45

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 77.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,1,1-Trichloroethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,1,2,2-Tetrachloroethane	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,1,2-Trichloroethane	ND		0.00523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,1-Dichloroethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Diisopropyl ether	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,1-Dichloroethene	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,1-Dichloropropene	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,2,3-Trichlorobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2,3-Trichloropropane	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2,4-Trichlorobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2,4-Trimethylbenzene	17.1		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2-Dibromo-3-Chloropropane	ND		0.740	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2-Dibromoethane (EDB)	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,2-Dichlorobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,2-Dichloroethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,2-Dichloropropane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,3,5-Trimethylbenzene	8.18		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,3-Dichlorobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
1,3-Dichloropropane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
1,4-Dichlorobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
2,2-Dichloropropane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
2-Butanone (MEK)	ND		0.0523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
2-Chlorotoluene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
2-Hexanone	ND		0.0523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
4-Chlorotoluene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
4-Methyl-2-pentanone (MIBK)	ND		0.0523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Acetone	ND		0.0523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Benzene	0.00278		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Bromobenzene	ND		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
Bromochloromethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Bromodichloromethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Bromoform	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Bromomethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Carbon disulfide	ND		0.00523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Carbon tetrachloride	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Chlorobenzene	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Chlorodibromomethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Chloroethane	ND		0.00523	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Chloroform	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Chloromethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
cis-1,2-Dichloroethene	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
cis-1,3-Dichloropropene	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Dibromomethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Dichlorodifluoromethane	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1
Ethylbenzene	4.09		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
Hexachlorobutadiene	ND		0.740	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
Isopropylbenzene	1.37		0.296	mg/Kg	*	10/02/12 11:32	10/06/12 18:50	2
Methyl tert-butyl ether	ND		0.00209	mg/Kg	*	10/02/12 11:36	10/05/12 16:39	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 20S

Lab Sample ID: 490-8013-3

Date Collected: 09/26/12 08:45

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 77.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0105	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Naphthalene	135		7.40	mg/Kg	☼	10/02/12 11:32	10/06/12 14:49	20
n-Butylbenzene	2.53		0.296	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2
N-Propylbenzene	1.29		0.296	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2
p-Isopropyltoluene	1.00		0.296	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2
sec-Butylbenzene	ND		0.296	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2
Styrene	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
tert-Butylbenzene	ND		0.296	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2
Tetrachloroethene	ND *		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Toluene	0.0416		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
trans-1,2-Dichloroethene	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
trans-1,3-Dichloropropene	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Trichloroethene	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Trichlorofluoromethane	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Vinyl chloride	ND		0.00209	mg/Kg	☼	10/02/12 11:36	10/05/12 16:39	1
Xylenes, Total	4.05		0.740	mg/Kg	☼	10/02/12 11:32	10/06/12 18:50	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130	10/02/12 11:36	10/05/12 16:39	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 130	10/02/12 11:32	10/06/12 14:49	20
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	10/02/12 11:32	10/06/12 18:50	2
4-Bromofluorobenzene (Surr)	111		70 - 130	10/02/12 11:36	10/05/12 16:39	1
4-Bromofluorobenzene (Surr)	83		70 - 130	10/02/12 11:32	10/06/12 14:49	20
4-Bromofluorobenzene (Surr)	86		70 - 130	10/02/12 11:32	10/06/12 18:50	2
Dibromofluoromethane (Surr)	107		70 - 130	10/02/12 11:36	10/05/12 16:39	1
Dibromofluoromethane (Surr)	87		70 - 130	10/02/12 11:32	10/06/12 14:49	20
Dibromofluoromethane (Surr)	88		70 - 130	10/02/12 11:32	10/06/12 18:50	2
Toluene-d8 (Surr)	109		70 - 130	10/02/12 11:36	10/05/12 16:39	1
Toluene-d8 (Surr)	115		70 - 130	10/02/12 11:32	10/06/12 14:49	20
Toluene-d8 (Surr)	113		70 - 130	10/02/12 11:32	10/06/12 18:50	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
1,2-Dichlorobenzene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
1,3-Dichlorobenzene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
1,4-Dichlorobenzene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
1-Methylnaphthalene	20.7		0.425	mg/Kg	☼	10/02/12 10:52	10/03/12 17:55	5
2,4,5-Trichlorophenol	ND		1.06	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,4,6-Trichlorophenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,4-Dichlorophenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,4-Dimethylphenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,4-Dinitrophenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,4-Dinitrotoluene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2,6-Dinitrotoluene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2-Chloronaphthalene	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2-Chlorophenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2-Methylnaphthalene	37.6		1.70	mg/Kg	☼	10/02/12 10:52	10/03/12 18:19	20
2-Methylphenol	ND		0.423	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1
2-Nitroaniline	ND		1.06	mg/Kg	☼	10/02/12 10:52	10/02/12 22:37	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 20S

Lab Sample ID: 490-8013-3

Date Collected: 09/26/12 08:45

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 77.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
3,3'-Dichlorobenzidine	ND		0.847	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
3 & 4 Methylphenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
3-Nitroaniline	ND		1.06	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4,6-Dinitro-2-methylphenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Bromophenyl phenyl ether	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Chloro-3-methylphenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Chlorophenyl phenyl ether	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Chloroaniline	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Nitroaniline	ND		1.06	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
4-Nitrophenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Acenaphthylene	8.06		0.425	mg/Kg	*	10/02/12 10:52	10/03/12 17:55	5
Acenaphthene	1.27		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Benzo[a]anthracene	2.00		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Benzo[a]pyrene	1.88		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Benzo[b]fluoranthene	1.03		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Benzo[g,h,i]perylene	0.712		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Benzo[k]fluoranthene	0.996		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Anthracene	4.10		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Bis(2-chloroethoxy)methane	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Bis(2-chloroethyl)ether	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Bis(2-ethylhexyl) phthalate	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
bis (2-chloroisopropyl) ether	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Butyl benzyl phthalate	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Carbazole	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Chrysene	1.55		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Cresols	ND		0.845	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Dibenz(a,h)anthracene	0.209		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Dibenzofuran	1.59		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Diethyl phthalate	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Dimethyl phthalate	ND		2.12	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Di-n-butyl phthalate	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Di-n-octyl phthalate	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Fluoranthene	4.57		0.425	mg/Kg	*	10/02/12 10:52	10/03/12 17:55	5
Fluorene	3.55		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Hexachlorobenzene	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Hexachlorobutadiene	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Hexachlorocyclopentadiene	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Hexachloroethane	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Indeno[1,2,3-cd]pyrene	0.581		0.0851	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Isophorone	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Naphthalene	38.9		1.70	mg/Kg	*	10/02/12 10:52	10/03/12 18:19	20
Nitrobenzene	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
N-Nitrosodi-n-propylamine	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Pentachlorophenol	ND		1.06	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Phenanthrene	14.9		0.425	mg/Kg	*	10/02/12 10:52	10/03/12 17:55	5
Phenol	ND		0.423	mg/Kg	*	10/02/12 10:52	10/02/12 22:37	1
Pyrene	6.86		0.425	mg/Kg	*	10/02/12 10:52	10/03/12 17:55	5

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 20S

Lab Sample ID: 490-8013-3

Date Collected: 09/26/12 08:45

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 77.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120	10/02/12 10:52	10/02/12 22:37	1
2-Fluorobiphenyl (Surr)	52		29 - 120	10/02/12 10:52	10/02/12 22:37	1
2-Fluorophenol (Surr)	42		10 - 120	10/02/12 10:52	10/02/12 22:37	1
Nitrobenzene-d5 (Surr)	53		27 - 120	10/02/12 10:52	10/02/12 22:37	1
Phenol-d5 (Surr)	49		10 - 120	10/02/12 10:52	10/02/12 22:37	1
Terphenyl-d14 (Surr)	72		13 - 120	10/02/12 10:52	10/02/12 22:37	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	24.2		7.14	mg/Kg	☼	10/02/12 11:26	10/03/12 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		50 - 150	10/02/12 11:26	10/03/12 00:30	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	227		12.8	mg/Kg	☼	10/02/12 08:07	10/04/12 13:55	2
C24-C40	32.5		6.41	mg/Kg	☼	10/02/12 08:07	10/03/12 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	249	X	50 - 150	10/02/12 08:07	10/03/12 22:48	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77		0.10	%			10/01/12 09:03	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-25773/6

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,1,1-Trichloroethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,1,2,2-Tetrachloroethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,1,2-Trichloroethane	ND		0.00500	mg/Kg			10/05/12 09:18	1
1,1-Dichloroethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Diisopropyl ether	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,1-Dichloroethene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,1-Dichloropropene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2,3-Trichlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2,3-Trichloropropane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2,4-Trichlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2,4-Trimethylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2-Dibromo-3-Chloropropane	ND		0.00500	mg/Kg			10/05/12 09:18	1
1,2-Dibromoethane (EDB)	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2-Dichlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2-Dichloroethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,2-Dichloropropane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,3,5-Trimethylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,3-Dichlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,3-Dichloropropane	ND		0.00200	mg/Kg			10/05/12 09:18	1
1,4-Dichlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
2,2-Dichloropropane	ND		0.00200	mg/Kg			10/05/12 09:18	1
2-Butanone (MEK)	ND		0.0500	mg/Kg			10/05/12 09:18	1
2-Chlorotoluene	ND		0.00200	mg/Kg			10/05/12 09:18	1
2-Hexanone	ND		0.0500	mg/Kg			10/05/12 09:18	1
4-Chlorotoluene	ND		0.00200	mg/Kg			10/05/12 09:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500	mg/Kg			10/05/12 09:18	1
Acetone	ND		0.0500	mg/Kg			10/05/12 09:18	1
Benzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Bromobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Bromochloromethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Bromodichloromethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Bromoform	ND		0.00200	mg/Kg			10/05/12 09:18	1
Bromomethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Carbon disulfide	ND		0.00500	mg/Kg			10/05/12 09:18	1
Carbon tetrachloride	ND		0.00200	mg/Kg			10/05/12 09:18	1
Chlorobenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Chlorodibromomethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Chloroethane	ND		0.00500	mg/Kg			10/05/12 09:18	1
Chloroform	ND		0.00200	mg/Kg			10/05/12 09:18	1
Chloromethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
cis-1,2-Dichloroethene	ND		0.00200	mg/Kg			10/05/12 09:18	1
cis-1,3-Dichloropropene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Dibromomethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Dichlorodifluoromethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Ethylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Hexachlorobutadiene	ND		0.00500	mg/Kg			10/05/12 09:18	1
Isopropylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-25773/6

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.00200	mg/Kg			10/05/12 09:18	1
Methylene Chloride	ND		0.0100	mg/Kg			10/05/12 09:18	1
Naphthalene	ND		0.00500	mg/Kg			10/05/12 09:18	1
n-Butylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
N-Propylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
p-Isopropyltoluene	ND		0.00200	mg/Kg			10/05/12 09:18	1
sec-Butylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Styrene	ND		0.00200	mg/Kg			10/05/12 09:18	1
tert-Butylbenzene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Tetrachloroethene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Toluene	ND		0.00200	mg/Kg			10/05/12 09:18	1
trans-1,2-Dichloroethene	ND		0.00200	mg/Kg			10/05/12 09:18	1
trans-1,3-Dichloropropene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Trichloroethene	ND		0.00200	mg/Kg			10/05/12 09:18	1
Trichlorofluoromethane	ND		0.00200	mg/Kg			10/05/12 09:18	1
Vinyl chloride	ND		0.00200	mg/Kg			10/05/12 09:18	1
Xylenes, Total	ND		0.00500	mg/Kg			10/05/12 09:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		10/05/12 09:18	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/05/12 09:18	1
Dibromofluoromethane (Surr)	95		70 - 130		10/05/12 09:18	1
Toluene-d8 (Surr)	112		70 - 130		10/05/12 09:18	1

Lab Sample ID: MB 490-25773/7

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			10/05/12 09:49	1
1,1-Dichloroethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Diisopropyl ether	ND		0.100	mg/Kg			10/05/12 09:49	1
1,1-Dichloroethene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,1-Dichloropropene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2,3-Trichloropropane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			10/05/12 09:49	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2-Dichloroethane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,2-Dichloropropane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-25773/7

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,3-Dichloropropane	ND		0.100	mg/Kg			10/05/12 09:49	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
2,2-Dichloropropane	ND		0.100	mg/Kg			10/05/12 09:49	1
2-Butanone (MEK)	ND		2.50	mg/Kg			10/05/12 09:49	1
2-Chlorotoluene	ND		0.100	mg/Kg			10/05/12 09:49	1
2-Hexanone	ND		2.50	mg/Kg			10/05/12 09:49	1
4-Chlorotoluene	ND		0.100	mg/Kg			10/05/12 09:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			10/05/12 09:49	1
Acetone	ND		2.50	mg/Kg			10/05/12 09:49	1
Benzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Bromobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Bromochloromethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Bromodichloromethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Bromoform	ND		0.100	mg/Kg			10/05/12 09:49	1
Bromomethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Carbon disulfide	ND		0.250	mg/Kg			10/05/12 09:49	1
Carbon tetrachloride	ND		0.100	mg/Kg			10/05/12 09:49	1
Chlorobenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Chlorodibromomethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Chloroethane	ND		0.250	mg/Kg			10/05/12 09:49	1
Chloroform	ND		0.100	mg/Kg			10/05/12 09:49	1
Chloromethane	ND		0.100	mg/Kg			10/05/12 09:49	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			10/05/12 09:49	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			10/05/12 09:49	1
Dibromomethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Ethylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Hexachlorobutadiene	ND		0.250	mg/Kg			10/05/12 09:49	1
Isopropylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Methyl tert-butyl ether	ND		0.100	mg/Kg			10/05/12 09:49	1
Methylene Chloride	ND		0.500	mg/Kg			10/05/12 09:49	1
Naphthalene	ND		0.250	mg/Kg			10/05/12 09:49	1
n-Butylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
N-Propylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
p-Isopropyltoluene	ND		0.100	mg/Kg			10/05/12 09:49	1
sec-Butylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Styrene	ND		0.100	mg/Kg			10/05/12 09:49	1
tert-Butylbenzene	ND		0.100	mg/Kg			10/05/12 09:49	1
Tetrachloroethene	ND		0.100	mg/Kg			10/05/12 09:49	1
Toluene	ND		0.100	mg/Kg			10/05/12 09:49	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			10/05/12 09:49	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			10/05/12 09:49	1
Trichloroethene	ND		0.100	mg/Kg			10/05/12 09:49	1
Trichlorofluoromethane	ND		0.100	mg/Kg			10/05/12 09:49	1
Vinyl chloride	ND		0.100	mg/Kg			10/05/12 09:49	1
Xylenes, Total	ND		0.250	mg/Kg			10/05/12 09:49	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-25773/7

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/05/12 09:49	1
4-Bromofluorobenzene (Surr)	84		70 - 130		10/05/12 09:49	1
Dibromofluoromethane (Surr)	101		70 - 130		10/05/12 09:49	1
Toluene-d8 (Surr)	108		70 - 130		10/05/12 09:49	1

Lab Sample ID: LCS 490-25773/3

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1,2-Tetrachloroethane	0.0500	0.05181		mg/Kg		104	80 - 136
1,1,1-Trichloroethane	0.0500	0.05494		mg/Kg		110	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.03918		mg/Kg		78	66 - 134
1,1,2-Trichloroethane	0.0500	0.05964		mg/Kg		119	78 - 128
1,1-Dichloroethane	0.0500	0.04983		mg/Kg		100	75 - 124
Diisopropyl ether	0.0500	0.04644		mg/Kg		93	68 - 124
1,1-Dichloroethene	0.0500	0.06002		mg/Kg		120	75 - 131
1,1-Dichloropropene	0.0500	0.05219		mg/Kg		104	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.04994		mg/Kg		100	70 - 150
1,2,3-Trichloropropane	0.0500	0.03923		mg/Kg		78	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.04738		mg/Kg		95	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.04040		mg/Kg		81	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04441		mg/Kg		89	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.05856		mg/Kg		117	80 - 135
1,2-Dichlorobenzene	0.0500	0.04855		mg/Kg		97	80 - 134
1,2-Dichloroethane	0.0500	0.04739		mg/Kg		95	65 - 134
1,2-Dichloropropane	0.0500	0.05054		mg/Kg		101	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.04213		mg/Kg		84	78 - 138
1,3-Dichlorobenzene	0.0500	0.04944		mg/Kg		99	79 - 137
1,3-Dichloropropane	0.0500	0.05927		mg/Kg		119	78 - 126
1,4-Dichlorobenzene	0.0500	0.04897		mg/Kg		98	77 - 139
2,2-Dichloropropane	0.0500	0.04995		mg/Kg		100	68 - 145
2-Butanone (MEK)	0.250	0.2359		mg/Kg		94	61 - 132
2-Chlorotoluene	0.0500	0.04399		mg/Kg		88	78 - 132
2-Hexanone	0.250	0.2675		mg/Kg		107	57 - 148
4-Chlorotoluene	0.0500	0.04445		mg/Kg		89	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2620		mg/Kg		105	59 - 138
Acetone	0.250	0.2315		mg/Kg		93	51 - 149
Benzene	0.0500	0.05341		mg/Kg		107	75 - 127
Bromobenzene	0.0500	0.04035		mg/Kg		81	75 - 130
Bromochloromethane	0.0500	0.05543		mg/Kg		111	70 - 132
Bromodichloromethane	0.0500	0.05509		mg/Kg		110	68 - 135
Bromoform	0.0500	0.05100		mg/Kg		102	36 - 150
Bromomethane	0.0500	0.06521		mg/Kg		130	43 - 142
Carbon disulfide	0.0500	0.05472		mg/Kg		109	74 - 135
Carbon tetrachloride	0.0500	0.05595		mg/Kg		112	70 - 141
Chlorobenzene	0.0500	0.05214		mg/Kg		104	84 - 125
Chlorodibromomethane	0.0500	0.05174		mg/Kg		103	66 - 134

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-25773/3

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	0.0500	0.04520		mg/Kg		90	53 - 144
Chloroform	0.0500	0.05230		mg/Kg		105	76 - 130
Chloromethane	0.0500	0.04165		mg/Kg		83	23 - 150
cis-1,2-Dichloroethene	0.0500	0.04632		mg/Kg		93	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05674		mg/Kg		113	73 - 148
Dibromomethane	0.0500	0.05523		mg/Kg		110	71 - 130
Dichlorodifluoromethane	0.0500	0.04080		mg/Kg		82	12 - 144
Ethylbenzene	0.0500	0.05284		mg/Kg		106	80 - 134
Hexachlorobutadiene	0.0500	0.04248		mg/Kg		85	65 - 148
Isopropylbenzene	0.0500	0.04975		mg/Kg		99	80 - 150
Methyl tert-butyl ether	0.0500	0.05061		mg/Kg		101	70 - 136
Methylene Chloride	0.0500	0.06112		mg/Kg		122	68 - 144
Naphthalene	0.0500	0.04413		mg/Kg		88	69 - 150
n-Butylbenzene	0.0500	0.04262		mg/Kg		85	72 - 152
N-Propylbenzene	0.0500	0.04176		mg/Kg		84	75 - 137
p-Isopropyltoluene	0.0500	0.03971		mg/Kg		79	77 - 141
sec-Butylbenzene	0.0500	0.04186		mg/Kg		84	79 - 141
Styrene	0.0500	0.05090		mg/Kg		102	82 - 137
tert-Butylbenzene	0.0500	0.04255		mg/Kg		85	80 - 132
Tetrachloroethene	0.0500	0.06686		mg/Kg		134	78 - 140
Toluene	0.0500	0.05864		mg/Kg		117	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05097		mg/Kg		102	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05238		mg/Kg		105	62 - 139
Trichloroethene	0.0500	0.05413		mg/Kg		108	77 - 127
Trichlorofluoromethane	0.0500	0.04939		mg/Kg		99	50 - 140
Vinyl chloride	0.0500	0.04414		mg/Kg		88	47 - 136
Xylenes, Total	0.150	0.1537		mg/Kg		102	80 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	79		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	114		70 - 130

Lab Sample ID: LCSD 490-25773/4

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05539		mg/Kg		111	80 - 136	7	50
1,1,1-Trichloroethane	0.0500	0.05480		mg/Kg		110	72 - 140	0	50
1,1,2,2-Tetrachloroethane	0.0500	0.04389		mg/Kg		88	66 - 134	11	50
1,1,2-Trichloroethane	0.0500	0.06201		mg/Kg		124	78 - 128	4	50
1,1-Dichloroethane	0.0500	0.04872		mg/Kg		97	75 - 124	2	50
Diisopropyl ether	0.0500	0.04580		mg/Kg		92	68 - 124	1	45
1,1-Dichloroethene	0.0500	0.06149		mg/Kg		123	75 - 131	2	50
1,1-Dichloropropene	0.0500	0.05099		mg/Kg		102	79 - 127	2	50
1,2,3-Trichlorobenzene	0.0500	0.04890		mg/Kg		98	70 - 150	2	50

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-25773/4

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,2,3-Trichloropropane	0.0500	0.04098		mg/Kg		82	65 - 139	4	50
1,2,4-Trichlorobenzene	0.0500	0.04726		mg/Kg		95	62 - 150	0	50
1,2,4-Trimethylbenzene	0.0500	0.04033		mg/Kg		81	77 - 139	0	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04373		mg/Kg		87	49 - 142	2	50
1,2-Dibromoethane (EDB)	0.0500	0.06098		mg/Kg		122	80 - 135	4	50
1,2-Dichlorobenzene	0.0500	0.05022		mg/Kg		100	80 - 134	3	50
1,2-Dichloroethane	0.0500	0.04779		mg/Kg		96	65 - 134	1	50
1,2-Dichloropropane	0.0500	0.04993		mg/Kg		100	69 - 120	1	50
1,3,5-Trimethylbenzene	0.0500	0.04315		mg/Kg		86	78 - 138	2	50
1,3-Dichlorobenzene	0.0500	0.05054		mg/Kg		101	79 - 137	2	50
1,3-Dichloropropane	0.0500	0.06170		mg/Kg		123	78 - 126	4	42
1,4-Dichlorobenzene	0.0500	0.04905		mg/Kg		98	77 - 139	0	50
2,2-Dichloropropane	0.0500	0.04972		mg/Kg		99	68 - 145	0	50
2-Butanone (MEK)	0.250	0.2168		mg/Kg		87	61 - 132	8	50
2-Chlorotoluene	0.0500	0.04595		mg/Kg		92	78 - 132	4	50
2-Hexanone	0.250	0.2408		mg/Kg		96	57 - 148	11	50
4-Chlorotoluene	0.0500	0.04543		mg/Kg		91	77 - 138	2	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2509		mg/Kg		100	59 - 138	4	50
Acetone	0.250	0.2191		mg/Kg		88	51 - 149	6	50
Benzene	0.0500	0.05270		mg/Kg		105	75 - 127	1	50
Bromobenzene	0.0500	0.04638		mg/Kg		93	75 - 130	14	50
Bromochloromethane	0.0500	0.05324		mg/Kg		106	70 - 132	4	50
Bromodichloromethane	0.0500	0.05504		mg/Kg		110	68 - 135	0	50
Bromoform	0.0500	0.05041		mg/Kg		101	36 - 150	1	50
Bromomethane	0.0500	0.06732		mg/Kg		135	43 - 142	3	50
Carbon disulfide	0.0500	0.05410		mg/Kg		108	74 - 135	1	50
Carbon tetrachloride	0.0500	0.05597		mg/Kg		112	70 - 141	0	50
Chlorobenzene	0.0500	0.05387		mg/Kg		108	84 - 125	3	50
Chlorodibromomethane	0.0500	0.05242		mg/Kg		105	66 - 134	1	50
Chloroethane	0.0500	0.04537		mg/Kg		91	53 - 144	0	50
Chloroform	0.0500	0.05136		mg/Kg		103	76 - 130	2	49
Chloromethane	0.0500	0.04436		mg/Kg		89	23 - 150	6	50
cis-1,2-Dichloroethene	0.0500	0.04564		mg/Kg		91	75 - 125	1	50
cis-1,3-Dichloropropene	0.0500	0.05894		mg/Kg		118	73 - 148	4	50
Dibromomethane	0.0500	0.05522		mg/Kg		110	71 - 130	0	50
Dichlorodifluoromethane	0.0500	0.04231		mg/Kg		85	12 - 144	4	50
Ethylbenzene	0.0500	0.05534		mg/Kg		111	80 - 134	5	50
Hexachlorobutadiene	0.0500	0.04472		mg/Kg		89	65 - 148	5	50
Isopropylbenzene	0.0500	0.05180		mg/Kg		104	80 - 150	4	50
Methyl tert-butyl ether	0.0500	0.04979		mg/Kg		100	70 - 136	2	50
Methylene Chloride	0.0500	0.05921		mg/Kg		118	68 - 144	3	50
Naphthalene	0.0500	0.04260		mg/Kg		85	69 - 150	4	50
n-Butylbenzene	0.0500	0.04346		mg/Kg		87	72 - 152	2	50
N-Propylbenzene	0.0500	0.04556		mg/Kg		91	75 - 137	9	50
p-Isopropyltoluene	0.0500	0.04101		mg/Kg		82	77 - 141	3	50
sec-Butylbenzene	0.0500	0.04338		mg/Kg		87	79 - 141	4	50
Styrene	0.0500	0.05277		mg/Kg		106	82 - 137	4	50
tert-Butylbenzene	0.0500	0.04403		mg/Kg		88	80 - 132	3	50

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-25773/4

Matrix: Solid

Analysis Batch: 25773

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Tetrachloroethene	0.0500	0.07146	*	mg/Kg		143	78 - 140	7	50	
Toluene	0.0500	0.06210		mg/Kg		124	80 - 132	6	50	
trans-1,2-Dichloroethene	0.0500	0.05070		mg/Kg		101	76 - 128	1	50	
trans-1,3-Dichloropropene	0.0500	0.05348		mg/Kg		107	62 - 139	2	50	
Trichloroethene	0.0500	0.05536		mg/Kg		111	77 - 127	2	50	
Trichlorofluoromethane	0.0500	0.05032		mg/Kg		101	50 - 140	2	50	
Vinyl chloride	0.0500	0.04410		mg/Kg		88	47 - 136	0	50	
Xylenes, Total	0.150	0.1596		mg/Kg		106	80 - 137	4	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	89		70 - 130
Dibromofluoromethane (Surr)	92		70 - 130
Toluene-d8 (Surr)	117		70 - 130

Lab Sample ID: MB 490-26095/7

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,1,1-Trichloroethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,1,2,2-Tetrachloroethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,1,2-Trichloroethane	ND		0.00500	mg/Kg			10/06/12 11:18	1
1,1-Dichloroethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Diisopropyl ether	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,1-Dichloroethene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,1-Dichloropropene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2,3-Trichlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2,3-Trichloropropane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2,4-Trichlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2,4-Trimethylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2-Dibromo-3-Chloropropane	ND		0.00500	mg/Kg			10/06/12 11:18	1
1,2-Dibromoethane (EDB)	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2-Dichlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2-Dichloroethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,2-Dichloropropane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,3,5-Trimethylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,3-Dichlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,3-Dichloropropane	ND		0.00200	mg/Kg			10/06/12 11:18	1
1,4-Dichlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
2,2-Dichloropropane	ND		0.00200	mg/Kg			10/06/12 11:18	1
2-Butanone (MEK)	ND		0.0500	mg/Kg			10/06/12 11:18	1
2-Chlorotoluene	ND		0.00200	mg/Kg			10/06/12 11:18	1
2-Hexanone	ND		0.0500	mg/Kg			10/06/12 11:18	1
4-Chlorotoluene	ND		0.00200	mg/Kg			10/06/12 11:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500	mg/Kg			10/06/12 11:18	1
Acetone	ND		0.0500	mg/Kg			10/06/12 11:18	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26095/7

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Bromobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Bromochloromethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Bromodichloromethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Bromoform	ND		0.00200	mg/Kg			10/06/12 11:18	1
Bromomethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Carbon disulfide	ND		0.00500	mg/Kg			10/06/12 11:18	1
Carbon tetrachloride	ND		0.00200	mg/Kg			10/06/12 11:18	1
Chlorobenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Chlorodibromomethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Chloroethane	ND		0.00500	mg/Kg			10/06/12 11:18	1
Chloroform	ND		0.00200	mg/Kg			10/06/12 11:18	1
Chloromethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
cis-1,2-Dichloroethene	ND		0.00200	mg/Kg			10/06/12 11:18	1
cis-1,3-Dichloropropene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Dibromomethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Dichlorodifluoromethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Ethylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Hexachlorobutadiene	ND		0.00500	mg/Kg			10/06/12 11:18	1
Isopropylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Methyl tert-butyl ether	ND		0.00200	mg/Kg			10/06/12 11:18	1
Methylene Chloride	ND		0.0100	mg/Kg			10/06/12 11:18	1
Naphthalene	ND		0.00500	mg/Kg			10/06/12 11:18	1
n-Butylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
N-Propylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
p-Isopropyltoluene	ND		0.00200	mg/Kg			10/06/12 11:18	1
sec-Butylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Styrene	ND		0.00200	mg/Kg			10/06/12 11:18	1
tert-Butylbenzene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Tetrachloroethene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Toluene	ND		0.00200	mg/Kg			10/06/12 11:18	1
trans-1,2-Dichloroethene	ND		0.00200	mg/Kg			10/06/12 11:18	1
trans-1,3-Dichloropropene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Trichloroethene	ND		0.00200	mg/Kg			10/06/12 11:18	1
Trichlorofluoromethane	ND		0.00200	mg/Kg			10/06/12 11:18	1
Vinyl chloride	ND		0.00200	mg/Kg			10/06/12 11:18	1
Xylenes, Total	ND		0.00500	mg/Kg			10/06/12 11:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		10/06/12 11:18	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/06/12 11:18	1
Dibromofluoromethane (Surr)	91		70 - 130		10/06/12 11:18	1
Toluene-d8 (Surr)	110		70 - 130		10/06/12 11:18	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26095/8

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			10/06/12 11:48	1
1,1-Dichloroethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Diisopropyl ether	ND		0.100	mg/Kg			10/06/12 11:48	1
1,1-Dichloroethene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,1-Dichloropropene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2,3-Trichloropropane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			10/06/12 11:48	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2-Dichloroethane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,2-Dichloropropane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
1,3-Dichloropropane	ND		0.100	mg/Kg			10/06/12 11:48	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
2,2-Dichloropropane	ND		0.100	mg/Kg			10/06/12 11:48	1
2-Butanone (MEK)	ND		2.50	mg/Kg			10/06/12 11:48	1
2-Chlorotoluene	ND		0.100	mg/Kg			10/06/12 11:48	1
2-Hexanone	ND		2.50	mg/Kg			10/06/12 11:48	1
4-Chlorotoluene	ND		0.100	mg/Kg			10/06/12 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			10/06/12 11:48	1
Acetone	ND		2.50	mg/Kg			10/06/12 11:48	1
Benzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Bromobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Bromochloromethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Bromodichloromethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Bromoform	ND		0.100	mg/Kg			10/06/12 11:48	1
Bromomethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Carbon disulfide	ND		0.250	mg/Kg			10/06/12 11:48	1
Carbon tetrachloride	ND		0.100	mg/Kg			10/06/12 11:48	1
Chlorobenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Chlorodibromomethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Chloroethane	ND		0.250	mg/Kg			10/06/12 11:48	1
Chloroform	ND		0.100	mg/Kg			10/06/12 11:48	1
Chloromethane	ND		0.100	mg/Kg			10/06/12 11:48	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			10/06/12 11:48	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			10/06/12 11:48	1
Dibromomethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Ethylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Hexachlorobutadiene	ND		0.250	mg/Kg			10/06/12 11:48	1
Isopropylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26095/8

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.100	mg/Kg			10/06/12 11:48	1
Methylene Chloride	ND		0.500	mg/Kg			10/06/12 11:48	1
Naphthalene	ND		0.250	mg/Kg			10/06/12 11:48	1
n-Butylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
N-Propylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
p-Isopropyltoluene	ND		0.100	mg/Kg			10/06/12 11:48	1
sec-Butylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Styrene	ND		0.100	mg/Kg			10/06/12 11:48	1
tert-Butylbenzene	ND		0.100	mg/Kg			10/06/12 11:48	1
Tetrachloroethene	ND		0.100	mg/Kg			10/06/12 11:48	1
Toluene	ND		0.100	mg/Kg			10/06/12 11:48	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			10/06/12 11:48	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			10/06/12 11:48	1
Trichloroethene	ND		0.100	mg/Kg			10/06/12 11:48	1
Trichlorofluoromethane	ND		0.100	mg/Kg			10/06/12 11:48	1
Vinyl chloride	ND		0.100	mg/Kg			10/06/12 11:48	1
Xylenes, Total	ND		0.250	mg/Kg			10/06/12 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/06/12 11:48	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/06/12 11:48	1
Dibromofluoromethane (Surr)	86		70 - 130		10/06/12 11:48	1
Toluene-d8 (Surr)	112		70 - 130		10/06/12 11:48	1

Lab Sample ID: LCS 490-26095/3

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.05826		mg/Kg		117	80 - 136
1,1,1-Trichloroethane	0.0500	0.05862		mg/Kg		117	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04764		mg/Kg		95	66 - 134
1,1,2-Trichloroethane	0.0500	0.06441	*	mg/Kg		129	78 - 128
1,1-Dichloroethane	0.0500	0.05466		mg/Kg		109	75 - 124
Diisopropyl ether	0.0500	0.05146		mg/Kg		103	68 - 124
1,1-Dichloroethene	0.0500	0.06942	*	mg/Kg		139	75 - 131
1,1-Dichloropropene	0.0500	0.05708		mg/Kg		114	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.06108		mg/Kg		122	70 - 150
1,2,3-Trichloropropane	0.0500	0.04694		mg/Kg		94	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.06094		mg/Kg		122	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.04700		mg/Kg		94	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04434		mg/Kg		89	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.06426		mg/Kg		129	80 - 135
1,2-Dichlorobenzene	0.0500	0.05624		mg/Kg		112	80 - 134
1,2-Dichloroethane	0.0500	0.05269		mg/Kg		105	65 - 134
1,2-Dichloropropane	0.0500	0.05338		mg/Kg		107	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.04809		mg/Kg		96	78 - 138
1,3-Dichlorobenzene	0.0500	0.05765		mg/Kg		115	79 - 137

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26095/3

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,3-Dichloropropane	0.0500	0.06549	*	mg/Kg		131	78 - 126
1,4-Dichlorobenzene	0.0500	0.05662		mg/Kg		113	77 - 139
2,2-Dichloropropane	0.0500	0.05406		mg/Kg		108	68 - 145
2-Butanone (MEK)	0.250	0.2575		mg/Kg		103	61 - 132
2-Chlorotoluene	0.0500	0.04908		mg/Kg		98	78 - 132
2-Hexanone	0.250	0.2651		mg/Kg		106	57 - 148
4-Chlorotoluene	0.0500	0.05108		mg/Kg		102	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2775		mg/Kg		111	59 - 138
Acetone	0.250	0.2526		mg/Kg		101	51 - 149
Benzene	0.0500	0.05678		mg/Kg		114	75 - 127
Bromobenzene	0.0500	0.04915		mg/Kg		98	75 - 130
Bromochloromethane	0.0500	0.06097		mg/Kg		122	70 - 132
Bromodichloromethane	0.0500	0.05776		mg/Kg		116	68 - 135
Bromoform	0.0500	0.05376		mg/Kg		108	36 - 150
Bromomethane	0.0500	0.06419		mg/Kg		128	43 - 142
Carbon disulfide	0.0500	0.06020		mg/Kg		120	74 - 135
Carbon tetrachloride	0.0500	0.06109		mg/Kg		122	70 - 141
Chlorobenzene	0.0500	0.05875		mg/Kg		117	84 - 125
Chlorodibromomethane	0.0500	0.05693		mg/Kg		114	66 - 134
Chloroethane	0.0500	0.04715		mg/Kg		94	53 - 144
Chloroform	0.0500	0.05582		mg/Kg		112	76 - 130
Chloromethane	0.0500	0.04081		mg/Kg		82	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05224		mg/Kg		104	75 - 125
cis-1,3-Dichloropropene	0.0500	0.06172		mg/Kg		123	73 - 148
Dibromomethane	0.0500	0.05819		mg/Kg		116	71 - 130
Dichlorodifluoromethane	0.0500	0.04742		mg/Kg		95	12 - 144
Ethylbenzene	0.0500	0.05900		mg/Kg		118	80 - 134
Hexachlorobutadiene	0.0500	0.05298		mg/Kg		106	65 - 148
Isopropylbenzene	0.0500	0.05613		mg/Kg		112	80 - 150
Methyl tert-butyl ether	0.0500	0.05708		mg/Kg		114	70 - 136
Methylene Chloride	0.0500	0.06334		mg/Kg		127	68 - 144
Naphthalene	0.0500	0.05190		mg/Kg		104	69 - 150
n-Butylbenzene	0.0500	0.05262		mg/Kg		105	72 - 152
N-Propylbenzene	0.0500	0.05027		mg/Kg		101	75 - 137
p-Isopropyltoluene	0.0500	0.04866		mg/Kg		97	77 - 141
sec-Butylbenzene	0.0500	0.04940		mg/Kg		99	79 - 141
Styrene	0.0500	0.05569		mg/Kg		111	82 - 137
tert-Butylbenzene	0.0500	0.04841		mg/Kg		97	80 - 132
Tetrachloroethene	0.0500	0.07851	*	mg/Kg		157	78 - 140
Toluene	0.0500	0.06483		mg/Kg		130	80 - 132
trans-1,2-Dichloroethene	0.0500	0.05944		mg/Kg		119	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05697		mg/Kg		114	62 - 139
Trichloroethene	0.0500	0.06214		mg/Kg		124	77 - 127
Trichlorofluoromethane	0.0500	0.05213		mg/Kg		104	50 - 140
Vinyl chloride	0.0500	0.04478		mg/Kg		90	47 - 136
Xylenes, Total	0.150	0.1682		mg/Kg		112	80 - 137

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26095/3

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Lab Sample ID: LCSD 490-26095/4

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05737		mg/Kg		115	80 - 136	2	50
1,1,1-Trichloroethane	0.0500	0.05885		mg/Kg		118	72 - 140	0	50
1,1,2,2-Tetrachloroethane	0.0500	0.04636		mg/Kg		93	66 - 134	3	50
1,1,2-Trichloroethane	0.0500	0.06183		mg/Kg		124	78 - 128	4	50
1,1-Dichloroethane	0.0500	0.05535		mg/Kg		111	75 - 124	1	50
Diisopropyl ether	0.0500	0.05038		mg/Kg		101	68 - 124	2	45
1,1-Dichloroethene	0.0500	0.06931	*	mg/Kg		139	75 - 131	0	50
1,1-Dichloropropene	0.0500	0.05710		mg/Kg		114	79 - 127	0	50
1,2,3-Trichlorobenzene	0.0500	0.06163		mg/Kg		123	70 - 150	1	50
1,2,3-Trichloropropane	0.0500	0.04765		mg/Kg		95	65 - 139	2	50
1,2,4-Trichlorobenzene	0.0500	0.06230		mg/Kg		125	62 - 150	2	50
1,2,4-Trimethylbenzene	0.0500	0.04742		mg/Kg		95	77 - 139	1	50
1,2-Dibromo-3-Chloropropane	0.0500	0.03974		mg/Kg		79	49 - 142	11	50
1,2-Dibromoethane (EDB)	0.0500	0.06147		mg/Kg		123	80 - 135	4	50
1,2-Dichlorobenzene	0.0500	0.05554		mg/Kg		111	80 - 134	1	50
1,2-Dichloroethane	0.0500	0.05040		mg/Kg		101	65 - 134	4	50
1,2-Dichloropropane	0.0500	0.05266		mg/Kg		105	69 - 120	1	50
1,3,5-Trimethylbenzene	0.0500	0.04818		mg/Kg		96	78 - 138	0	50
1,3-Dichlorobenzene	0.0500	0.05737		mg/Kg		115	79 - 137	0	50
1,3-Dichloropropane	0.0500	0.06121		mg/Kg		122	78 - 126	7	42
1,4-Dichlorobenzene	0.0500	0.05741		mg/Kg		115	77 - 139	1	50
2,2-Dichloropropane	0.0500	0.05325		mg/Kg		107	68 - 145	2	50
2-Butanone (MEK)	0.250	0.2696		mg/Kg		108	61 - 132	5	50
2-Chlorotoluene	0.0500	0.04943		mg/Kg		99	78 - 132	1	50
2-Hexanone	0.250	0.2895		mg/Kg		116	57 - 148	9	50
4-Chlorotoluene	0.0500	0.05034		mg/Kg		101	77 - 138	1	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2862		mg/Kg		114	59 - 138	3	50
Acetone	0.250	0.2556		mg/Kg		102	51 - 149	1	50
Benzene	0.0500	0.05712		mg/Kg		114	75 - 127	1	50
Bromobenzene	0.0500	0.04936		mg/Kg		99	75 - 130	0	50
Bromochloromethane	0.0500	0.05958		mg/Kg		119	70 - 132	2	50
Bromodichloromethane	0.0500	0.05716		mg/Kg		114	68 - 135	1	50
Bromoform	0.0500	0.05288		mg/Kg		106	36 - 150	2	50
Bromomethane	0.0500	0.06289		mg/Kg		126	43 - 142	2	50
Carbon disulfide	0.0500	0.05896		mg/Kg		118	74 - 135	2	50
Carbon tetrachloride	0.0500	0.06146		mg/Kg		123	70 - 141	1	50
Chlorobenzene	0.0500	0.05828		mg/Kg		117	84 - 125	1	50
Chlorodibromomethane	0.0500	0.05445		mg/Kg		109	66 - 134	4	50

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26095/4

Matrix: Solid

Analysis Batch: 26095

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	0.0500	0.04484		mg/Kg		90	53 - 144	5	50
Chloroform	0.0500	0.05631		mg/Kg		113	76 - 130	1	49
Chloromethane	0.0500	0.04241		mg/Kg		85	23 - 150	4	50
cis-1,2-Dichloroethene	0.0500	0.05091		mg/Kg		102	75 - 125	3	50
cis-1,3-Dichloropropene	0.0500	0.06035		mg/Kg		121	73 - 148	2	50
Dibromomethane	0.0500	0.05761		mg/Kg		115	71 - 130	1	50
Dichlorodifluoromethane	0.0500	0.04553		mg/Kg		91	12 - 144	4	50
Ethylbenzene	0.0500	0.05907		mg/Kg		118	80 - 134	0	50
Hexachlorobutadiene	0.0500	0.05573		mg/Kg		111	65 - 148	5	50
Isopropylbenzene	0.0500	0.05529		mg/Kg		111	80 - 150	1	50
Methyl tert-butyl ether	0.0500	0.05485		mg/Kg		110	70 - 136	4	50
Methylene Chloride	0.0500	0.06111		mg/Kg		122	68 - 144	4	50
Naphthalene	0.0500	0.05509		mg/Kg		110	69 - 150	6	50
n-Butylbenzene	0.0500	0.05190		mg/Kg		104	72 - 152	1	50
N-Propylbenzene	0.0500	0.05060		mg/Kg		101	75 - 137	1	50
p-Isopropyltoluene	0.0500	0.04853		mg/Kg		97	77 - 141	0	50
sec-Butylbenzene	0.0500	0.04968		mg/Kg		99	79 - 141	1	50
Styrene	0.0500	0.05553		mg/Kg		111	82 - 137	0	50
tert-Butylbenzene	0.0500	0.04919		mg/Kg		98	80 - 132	2	50
Tetrachloroethene	0.0500	0.07740	*	mg/Kg		155	78 - 140	1	50
Toluene	0.0500	0.06426		mg/Kg		129	80 - 132	1	50
trans-1,2-Dichloroethene	0.0500	0.05800		mg/Kg		116	76 - 128	2	50
trans-1,3-Dichloropropene	0.0500	0.05499		mg/Kg		110	62 - 139	4	50
Trichloroethene	0.0500	0.06075		mg/Kg		122	77 - 127	2	50
Trichlorofluoromethane	0.0500	0.05160		mg/Kg		103	50 - 140	1	50
Vinyl chloride	0.0500	0.04479		mg/Kg		90	47 - 136	0	50
Xylenes, Total	0.150	0.1673		mg/Kg		112	80 - 137	1	50

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	112		70 - 130

Lab Sample ID: MB 490-26524/7

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,1,1-Trichloroethane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,1,1,2,2-Tetrachloroethane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,1,2-Trichloroethane	ND		0.250	mg/Kg			10/09/12 08:09	1
1,1-Dichloroethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Diisopropyl ether	ND		0.100	mg/Kg			10/09/12 08:09	1
1,1-Dichloroethene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,1-Dichloropropene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2,3-Trichlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26524/7

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2,4-Trichlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2,4-Trimethylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2-Dibromo-3-Chloropropane	ND		0.250	mg/Kg			10/09/12 08:09	1
1,2-Dibromoethane (EDB)	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2-Dichlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2-Dichloroethane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,2-Dichloropropane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,3,5-Trimethylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,3-Dichlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
1,3-Dichloropropane	ND		0.100	mg/Kg			10/09/12 08:09	1
1,4-Dichlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
2,2-Dichloropropane	ND		0.100	mg/Kg			10/09/12 08:09	1
2-Butanone (MEK)	ND		2.50	mg/Kg			10/09/12 08:09	1
2-Chlorotoluene	ND		0.100	mg/Kg			10/09/12 08:09	1
2-Hexanone	ND		2.50	mg/Kg			10/09/12 08:09	1
4-Chlorotoluene	ND		0.100	mg/Kg			10/09/12 08:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	mg/Kg			10/09/12 08:09	1
Acetone	ND		2.50	mg/Kg			10/09/12 08:09	1
Benzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Bromobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Bromochloromethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Bromodichloromethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Bromoform	ND		0.100	mg/Kg			10/09/12 08:09	1
Bromomethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Carbon disulfide	ND		0.250	mg/Kg			10/09/12 08:09	1
Carbon tetrachloride	ND		0.100	mg/Kg			10/09/12 08:09	1
Chlorobenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Chlorodibromomethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Chloroethane	ND		0.250	mg/Kg			10/09/12 08:09	1
Chloroform	ND		0.100	mg/Kg			10/09/12 08:09	1
Chloromethane	ND		0.100	mg/Kg			10/09/12 08:09	1
cis-1,2-Dichloroethene	ND		0.100	mg/Kg			10/09/12 08:09	1
cis-1,3-Dichloropropene	ND		0.100	mg/Kg			10/09/12 08:09	1
Dibromomethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Dichlorodifluoromethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Ethylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Hexachlorobutadiene	ND		0.250	mg/Kg			10/09/12 08:09	1
Isopropylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Methyl tert-butyl ether	ND		0.100	mg/Kg			10/09/12 08:09	1
Methylene Chloride	ND		0.500	mg/Kg			10/09/12 08:09	1
Naphthalene	ND		0.250	mg/Kg			10/09/12 08:09	1
n-Butylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
N-Propylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
p-Isopropyltoluene	ND		0.100	mg/Kg			10/09/12 08:09	1
sec-Butylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1
Styrene	ND		0.100	mg/Kg			10/09/12 08:09	1
tert-Butylbenzene	ND		0.100	mg/Kg			10/09/12 08:09	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26524/7

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.100	mg/Kg			10/09/12 08:09	1
Toluene	ND		0.100	mg/Kg			10/09/12 08:09	1
trans-1,2-Dichloroethene	ND		0.100	mg/Kg			10/09/12 08:09	1
trans-1,3-Dichloropropene	ND		0.100	mg/Kg			10/09/12 08:09	1
Trichloroethene	ND		0.100	mg/Kg			10/09/12 08:09	1
Trichlorofluoromethane	ND		0.100	mg/Kg			10/09/12 08:09	1
Vinyl chloride	ND		0.100	mg/Kg			10/09/12 08:09	1
Xylenes, Total	ND		0.250	mg/Kg			10/09/12 08:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		10/09/12 08:09	1
4-Bromofluorobenzene (Surr)	90		70 - 130		10/09/12 08:09	1
Dibromofluoromethane (Surr)	97		70 - 130		10/09/12 08:09	1
Toluene-d8 (Surr)	109		70 - 130		10/09/12 08:09	1

Lab Sample ID: LCS 490-26524/3

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.05486		mg/Kg		110	80 - 136
1,1,1-Trichloroethane	0.0500	0.06091		mg/Kg		122	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04923		mg/Kg		98	66 - 134
1,1,2-Trichloroethane	0.0500	0.05927		mg/Kg		119	78 - 128
1,1-Dichloroethane	0.0500	0.05529		mg/Kg		111	75 - 124
Diisopropyl ether	0.0500	0.05426		mg/Kg		109	68 - 124
1,1-Dichloroethene	0.0500	0.06517		mg/Kg		130	75 - 131
1,1-Dichloropropene	0.0500	0.05701		mg/Kg		114	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.05763		mg/Kg		115	70 - 150
1,2,3-Trichloropropane	0.0500	0.05306		mg/Kg		106	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05936		mg/Kg		119	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.05079		mg/Kg		102	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04647		mg/Kg		93	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.06218		mg/Kg		124	80 - 135
1,2-Dichlorobenzene	0.0500	0.05531		mg/Kg		111	80 - 134
1,2-Dichloroethane	0.0500	0.05576		mg/Kg		112	65 - 134
1,2-Dichloropropane	0.0500	0.05393		mg/Kg		108	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05209		mg/Kg		104	78 - 138
1,3-Dichlorobenzene	0.0500	0.05407		mg/Kg		108	79 - 137
1,3-Dichloropropane	0.0500	0.05983		mg/Kg		120	78 - 126
1,4-Dichlorobenzene	0.0500	0.05396		mg/Kg		108	77 - 139
2,2-Dichloropropane	0.0500	0.05659		mg/Kg		113	68 - 145
2-Butanone (MEK)	0.250	0.2511		mg/Kg		100	61 - 132
2-Chlorotoluene	0.0500	0.05212		mg/Kg		104	78 - 132
2-Hexanone	0.250	0.2669		mg/Kg		107	57 - 148
4-Chlorotoluene	0.0500	0.05220		mg/Kg		104	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2788		mg/Kg		112	59 - 138
Acetone	0.250	0.2696		mg/Kg		108	51 - 149

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26524/3

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05438		mg/Kg		109	75 - 127
Bromobenzene	0.0500	0.05236		mg/Kg		105	75 - 130
Bromochloromethane	0.0500	0.05763		mg/Kg		115	70 - 132
Bromodichloromethane	0.0500	0.05833		mg/Kg		117	68 - 135
Bromoform	0.0500	0.04991		mg/Kg		100	36 - 150
Bromomethane	0.0500	0.06446		mg/Kg		129	43 - 142
Carbon disulfide	0.0500	0.05662		mg/Kg		113	74 - 135
Carbon tetrachloride	0.0500	0.06656		mg/Kg		133	70 - 141
Chlorobenzene	0.0500	0.05559		mg/Kg		111	84 - 125
Chlorodibromomethane	0.0500	0.05662		mg/Kg		113	66 - 134
Chloroethane	0.0500	0.04635		mg/Kg		93	53 - 144
Chloroform	0.0500	0.05640		mg/Kg		113	76 - 130
Chloromethane	0.0500	0.04365		mg/Kg		87	23 - 150
cis-1,2-Dichloroethene	0.0500	0.05395		mg/Kg		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.06083		mg/Kg		122	73 - 148
Dibromomethane	0.0500	0.05632		mg/Kg		113	71 - 130
Dichlorodifluoromethane	0.0500	0.04788		mg/Kg		96	12 - 144
Ethylbenzene	0.0500	0.05342		mg/Kg		107	80 - 134
Hexachlorobutadiene	0.0500	0.05539		mg/Kg		111	65 - 148
Isopropylbenzene	0.0500	0.05377		mg/Kg		108	80 - 150
Methyl tert-butyl ether	0.0500	0.05838		mg/Kg		117	70 - 136
Methylene Chloride	0.0500	0.05881		mg/Kg		118	68 - 144
Naphthalene	0.0500	0.05528		mg/Kg		111	69 - 150
n-Butylbenzene	0.0500	0.05426		mg/Kg		109	72 - 152
N-Propylbenzene	0.0500	0.05096		mg/Kg		102	75 - 137
p-Isopropyltoluene	0.0500	0.05316		mg/Kg		106	77 - 141
sec-Butylbenzene	0.0500	0.05380		mg/Kg		108	79 - 141
Styrene	0.0500	0.05367		mg/Kg		107	82 - 137
tert-Butylbenzene	0.0500	0.05267		mg/Kg		105	80 - 132
Tetrachloroethene	0.0500	0.06326		mg/Kg		127	78 - 140
Toluene	0.0500	0.05745		mg/Kg		115	80 - 132
trans-1,2-Dichloroethene	0.0500	0.06213		mg/Kg		124	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05642		mg/Kg		113	62 - 139
Trichloroethene	0.0500	0.05785		mg/Kg		116	77 - 127
Trichlorofluoromethane	0.0500	0.05455		mg/Kg		109	50 - 140
Vinyl chloride	0.0500	0.04638		mg/Kg		93	47 - 136
Xylenes, Total	0.150	0.1552		mg/Kg		103	80 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	106		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26524/4

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05321		mg/Kg		106	80 - 136	3	50
1,1,1-Trichloroethane	0.0500	0.06024		mg/Kg		120	72 - 140	1	50
1,1,2,2-Tetrachloroethane	0.0500	0.04954		mg/Kg		99	66 - 134	1	50
1,1,2-Trichloroethane	0.0500	0.05873		mg/Kg		117	78 - 128	1	50
1,1-Dichloroethane	0.0500	0.05663		mg/Kg		113	75 - 124	2	50
Diisopropyl ether	0.0500	0.05501		mg/Kg		110	68 - 124	1	45
1,1-Dichloroethene	0.0500	0.06800	*	mg/Kg		136	75 - 131	4	50
1,1-Dichloropropene	0.0500	0.05600		mg/Kg		112	79 - 127	2	50
1,2,3-Trichlorobenzene	0.0500	0.05593		mg/Kg		112	70 - 150	3	50
1,2,3-Trichloropropane	0.0500	0.05403		mg/Kg		108	65 - 139	2	50
1,2,4-Trichlorobenzene	0.0500	0.05738		mg/Kg		115	62 - 150	3	50
1,2,4-Trimethylbenzene	0.0500	0.04948		mg/Kg		99	77 - 139	3	50
1,2-Dibromo-3-Chloropropane	0.0500	0.04960		mg/Kg		99	49 - 142	7	50
1,2-Dibromoethane (EDB)	0.0500	0.06221		mg/Kg		124	80 - 135	0	50
1,2-Dichlorobenzene	0.0500	0.05457		mg/Kg		109	80 - 134	1	50
1,2-Dichloroethane	0.0500	0.05493		mg/Kg		110	65 - 134	1	50
1,2-Dichloropropane	0.0500	0.05292		mg/Kg		106	69 - 120	2	50
1,3,5-Trimethylbenzene	0.0500	0.05121		mg/Kg		102	78 - 138	2	50
1,3-Dichlorobenzene	0.0500	0.05569		mg/Kg		111	79 - 137	3	50
1,3-Dichloropropane	0.0500	0.05891		mg/Kg		118	78 - 126	2	42
1,4-Dichlorobenzene	0.0500	0.05622		mg/Kg		112	77 - 139	4	50
2,2-Dichloropropane	0.0500	0.05554		mg/Kg		111	68 - 145	2	50
2-Butanone (MEK)	0.250	0.2742		mg/Kg		110	61 - 132	9	50
2-Chlorotoluene	0.0500	0.05057		mg/Kg		101	78 - 132	3	50
2-Hexanone	0.250	0.2974		mg/Kg		119	57 - 148	11	50
4-Chlorotoluene	0.0500	0.05139		mg/Kg		103	77 - 138	2	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2936		mg/Kg		117	59 - 138	5	50
Acetone	0.250	0.2820		mg/Kg		113	51 - 149	4	50
Benzene	0.0500	0.05405		mg/Kg		108	75 - 127	1	50
Bromobenzene	0.0500	0.05135		mg/Kg		103	75 - 130	2	50
Bromochloromethane	0.0500	0.06012		mg/Kg		120	70 - 132	4	50
Bromodichloromethane	0.0500	0.05847		mg/Kg		117	68 - 135	0	50
Bromoform	0.0500	0.05030		mg/Kg		101	36 - 150	1	50
Bromomethane	0.0500	0.06058		mg/Kg		121	43 - 142	6	50
Carbon disulfide	0.0500	0.05811		mg/Kg		116	74 - 135	3	50
Carbon tetrachloride	0.0500	0.06500		mg/Kg		130	70 - 141	2	50
Chlorobenzene	0.0500	0.05434		mg/Kg		109	84 - 125	2	50
Chlorodibromomethane	0.0500	0.05513		mg/Kg		110	66 - 134	3	50
Chloroethane	0.0500	0.04743		mg/Kg		95	53 - 144	2	50
Chloroform	0.0500	0.05521		mg/Kg		110	76 - 130	2	49
Chloromethane	0.0500	0.04573		mg/Kg		91	23 - 150	5	50
cis-1,2-Dichloroethene	0.0500	0.05447		mg/Kg		109	75 - 125	1	50
cis-1,3-Dichloropropene	0.0500	0.05914		mg/Kg		118	73 - 148	3	50
Dibromomethane	0.0500	0.05519		mg/Kg		110	71 - 130	2	50
Dichlorodifluoromethane	0.0500	0.04575		mg/Kg		91	12 - 144	5	50
Ethylbenzene	0.0500	0.05328		mg/Kg		107	80 - 134	0	50
Hexachlorobutadiene	0.0500	0.05256		mg/Kg		105	65 - 148	5	50
Isopropylbenzene	0.0500	0.05193		mg/Kg		104	80 - 150	3	50

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26524/4

Matrix: Solid

Analysis Batch: 26524

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Methyl tert-butyl ether	0.0500	0.05830		mg/Kg		117	70 - 136	0	50	
Methylene Chloride	0.0500	0.05935		mg/Kg		119	68 - 144	1	50	
Naphthalene	0.0500	0.05487		mg/Kg		110	69 - 150	1	50	
n-Butylbenzene	0.0500	0.05314		mg/Kg		106	72 - 152	2	50	
N-Propylbenzene	0.0500	0.04998		mg/Kg		100	75 - 137	2	50	
p-Isopropyltoluene	0.0500	0.05178		mg/Kg		104	77 - 141	3	50	
sec-Butylbenzene	0.0500	0.05366		mg/Kg		107	79 - 141	0	50	
Styrene	0.0500	0.05155		mg/Kg		103	82 - 137	4	50	
tert-Butylbenzene	0.0500	0.05276		mg/Kg		106	80 - 132	0	50	
Tetrachloroethene	0.0500	0.05998		mg/Kg		120	78 - 140	5	50	
Toluene	0.0500	0.05752		mg/Kg		115	80 - 132	0	50	
trans-1,2-Dichloroethene	0.0500	0.06103		mg/Kg		122	76 - 128	2	50	
trans-1,3-Dichloropropene	0.0500	0.05670		mg/Kg		113	62 - 139	0	50	
Trichloroethene	0.0500	0.05748		mg/Kg		115	77 - 127	1	50	
Trichlorofluoromethane	0.0500	0.05225		mg/Kg		104	50 - 140	4	50	
Vinyl chloride	0.0500	0.04627		mg/Kg		93	47 - 136	0	50	
Xylenes, Total	0.150	0.1524		mg/Kg		102	80 - 137	2	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-24824/1-A

Matrix: Solid

Analysis Batch: 24882

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24824

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
1,2-Dichlorobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
1,3-Dichlorobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
1,4-Dichlorobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
1-Methylnaphthalene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4,5-Trichlorophenol	ND		0.833	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4,6-Trichlorophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4-Dichlorophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4-Dimethylphenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4-Dinitrophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,4-Dinitrotoluene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2,6-Dinitrotoluene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2-Chloronaphthalene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2-Chlorophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2-Methylnaphthalene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2-Methylphenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
2-Nitroaniline	ND		0.833	mg/Kg		10/02/12 10:52	10/02/12 18:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-24824/1-A

Matrix: Solid

Analysis Batch: 24882

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24824

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
3,3'-Dichlorobenzidine	ND		0.667	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
3 & 4 Methylphenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
3-Nitroaniline	ND		0.833	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4,6-Dinitro-2-methylphenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Bromophenyl phenyl ether	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Chloro-3-methylphenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Chlorophenyl phenyl ether	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Chloroaniline	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Nitroaniline	ND		0.833	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
4-Nitrophenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Acenaphthylene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Acenaphthene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Benzo[a]anthracene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Benzo[a]pyrene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Benzo[b]fluoranthene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Benzo[g,h,i]perylene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Benzo[k]fluoranthene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Anthracene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Bis(2-chloroethoxy)methane	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Bis(2-chloroethyl)ether	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Bis(2-ethylhexyl) phthalate	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
bis (2-chloroisopropyl) ether	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Butyl benzyl phthalate	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Carbazole	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Chrysene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Cresols	ND		0.666	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Dibenz(a,h)anthracene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Dibenzofuran	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Diethyl phthalate	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Dimethyl phthalate	ND		1.67	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Di-n-butyl phthalate	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Di-n-octyl phthalate	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Fluoranthene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Fluorene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Hexachlorobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Hexachlorobutadiene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Hexachlorocyclopentadiene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Hexachloroethane	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Isophorone	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Naphthalene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Nitrobenzene	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
N-Nitrosodi-n-propylamine	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Pentachlorophenol	ND		0.833	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Phenanthrene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-24824/1-A

Matrix: Solid

Analysis Batch: 24882

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24824

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.333	mg/Kg		10/02/12 10:52	10/02/12 18:23	1
Pyrene	ND		0.0670	mg/Kg		10/02/12 10:52	10/02/12 18:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		10 - 120	10/02/12 10:52	10/02/12 18:23	1
2-Fluorobiphenyl (Surr)	73		29 - 120	10/02/12 10:52	10/02/12 18:23	1
2-Fluorophenol (Surr)	64		10 - 120	10/02/12 10:52	10/02/12 18:23	1
Nitrobenzene-d5 (Surr)	74		27 - 120	10/02/12 10:52	10/02/12 18:23	1
Phenol-d5 (Surr)	69		10 - 120	10/02/12 10:52	10/02/12 18:23	1
Terphenyl-d14 (Surr)	89		13 - 120	10/02/12 10:52	10/02/12 18:23	1

Lab Sample ID: LCS 490-24824/2-A

Matrix: Solid

Analysis Batch: 24882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1.67	1.350		mg/Kg		81	29 - 120
1,2-Dichlorobenzene	1.67	1.386		mg/Kg		83	33 - 120
1,3-Dichlorobenzene	1.67	1.409		mg/Kg		85	32 - 120
1,4-Dichlorobenzene	1.67	1.402		mg/Kg		84	32 - 120
1-Methylnaphthalene	1.67	1.418		mg/Kg		85	32 - 120
2,4,5-Trichlorophenol	1.67	1.344		mg/Kg		81	39 - 120
2,4,6-Trichlorophenol	1.67	1.547		mg/Kg		93	39 - 120
2,4-Dichlorophenol	1.67	1.497		mg/Kg		90	32 - 120
2,4-Dimethylphenol	1.67	1.777		mg/Kg		107	32 - 120
2,4-Dinitrophenol	1.67	1.339		mg/Kg		80	23 - 142
2,4-Dinitrotoluene	1.67	1.670		mg/Kg		100	43 - 120
2,6-Dinitrotoluene	1.67	1.720		mg/Kg		103	43 - 120
2-Chloronaphthalene	1.67	1.544		mg/Kg		93	34 - 120
2-Chlorophenol	1.67	1.511		mg/Kg		91	32 - 120
2-Methylnaphthalene	1.67	1.468		mg/Kg		88	28 - 120
2-Methylphenol	1.67	1.689		mg/Kg		101	36 - 120
2-Nitroaniline	1.67	1.932		mg/Kg		116	40 - 120
2-Nitrophenol	1.67	1.329		mg/Kg		80	29 - 120
3,3'-Dichlorobenzidine	1.67	1.410		mg/Kg		85	39 - 120
3 & 4 Methylphenol	1.67	1.616		mg/Kg		97	37 - 120
3-Nitroaniline	1.67	1.754		mg/Kg		105	42 - 120
4,6-Dinitro-2-methylphenol	1.67	1.425		mg/Kg		86	27 - 134
4-Bromophenyl phenyl ether	1.67	1.520		mg/Kg		91	40 - 120
4-Chloro-3-methylphenol	1.67	1.658		mg/Kg		99	38 - 120
4-Chlorophenyl phenyl ether	1.67	1.490		mg/Kg		89	42 - 120
4-Chloroaniline	1.67	1.728		mg/Kg		104	35 - 120
4-Nitroaniline	1.67	1.667		mg/Kg		100	43 - 120
4-Nitrophenol	1.67	1.849		mg/Kg		111	32 - 136
Acenaphthylene	1.67	1.599		mg/Kg		96	38 - 120
Acenaphthene	1.67	1.558		mg/Kg		93	36 - 120
Benzo[a]anthracene	1.67	1.543		mg/Kg		93	45 - 120
Benzo[a]pyrene	1.67	1.645		mg/Kg		99	45 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-24824/2-A

Matrix: Solid

Analysis Batch: 24882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24824

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Benzo[b]fluoranthene	1.67	1.525		mg/Kg		91	42 - 120
Benzo[g,h,i]perylene	1.67	1.464		mg/Kg		88	38 - 120
Benzo[k]fluoranthene	1.67	1.602		mg/Kg		96	42 - 120
Anthracene	1.67	1.607		mg/Kg		96	46 - 124
Bis(2-chloroethoxy)methane	1.67	1.670		mg/Kg		100	32 - 120
Bis(2-chloroethyl)ether	1.67	1.437		mg/Kg		86	31 - 120
Bis(2-ethylhexyl) phthalate	1.67	1.806		mg/Kg		108	43 - 120
bis (2-chloroisopropyl) ether	1.67	1.589		mg/Kg		95	32 - 120
Butyl benzyl phthalate	1.67	1.836		mg/Kg		110	43 - 133
Carbazole	1.67	1.657		mg/Kg		99	44 - 120
Chrysene	1.67	1.500		mg/Kg		90	43 - 120
Cresols	3.33	3.305		mg/Kg		99	49 - 129
Dibenz(a,h)anthracene	1.67	1.509		mg/Kg		91	32 - 128
Dibenzofuran	1.67	1.582		mg/Kg		95	41 - 120
Diethyl phthalate	1.67	1.625		mg/Kg		97	41 - 122
Dimethyl phthalate	1.67	ND		mg/Kg		94	55 - 120
Di-n-butyl phthalate	1.67	1.642		mg/Kg		99	46 - 127
Di-n-octyl phthalate	1.67	1.808		mg/Kg		108	40 - 130
Fluoranthene	1.67	1.556		mg/Kg		93	46 - 120
Fluorene	1.67	1.589		mg/Kg		95	42 - 120
Hexachlorobenzene	1.67	1.629		mg/Kg		98	44 - 120
Hexachlorobutadiene	1.67	1.419		mg/Kg		85	31 - 120
Hexachlorocyclopentadiene	1.67	1.138		mg/Kg		68	24 - 120
Hexachloroethane	1.67	1.595		mg/Kg		96	33 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.491		mg/Kg		89	41 - 121
Isophorone	1.67	1.620		mg/Kg		97	33 - 120
Naphthalene	1.67	1.656		mg/Kg		99	32 - 120
Nitrobenzene	1.67	1.694		mg/Kg		102	26 - 120
N-Nitrosodi-n-propylamine	1.67	1.784		mg/Kg		107	35 - 120
n-Nitrosodiphenylamine(as diphenylamine)	1.67	1.966		mg/Kg		118	52 - 140
Pentachlorophenol	1.67	1.647		mg/Kg		99	44 - 134
Phenanthrene	1.67	1.599		mg/Kg		96	45 - 120
Phenol	1.67	1.661		mg/Kg		100	30 - 120
Pyrene	1.67	1.727		mg/Kg		104	43 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	89		10 - 120
2-Fluorobiphenyl (Surr)	70		29 - 120
2-Fluorophenol (Surr)	63		10 - 120
Nitrobenzene-d5 (Surr)	80		27 - 120
Phenol-d5 (Surr)	75		10 - 120
Terphenyl-d14 (Surr)	91		13 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: 180-14797-A-18-C MS
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	ND		563	534.9		mg/Kg	☼	95	56 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
a,a,a-Trifluorotoluene	117		50 - 150						

Lab Sample ID: 180-14797-A-18-C MSD
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 24795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	ND		563	564.3		mg/Kg	☼	100	56 - 130	5	21
Surrogate	%Recovery	MSD Qualifier	Limits								
a,a,a-Trifluorotoluene	114		50 - 150								

Lab Sample ID: MB 490-24896/13
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.00	mg/Kg			10/02/12 16:37	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150				10/02/12 16:37	1

Lab Sample ID: MB 490-24896/14
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		5.00	mg/Kg			10/02/12 16:57	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150				10/02/12 16:57	1

Lab Sample ID: LCS 490-24896/17
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	10.0	9.411		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	112		50 - 150				

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-24896/18
Matrix: Solid
Analysis Batch: 24896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	10.0	10.98		mg/Kg		110	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
a,a,a-Trifluorotoluene	128		50 - 150				

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-24736/1-A
Matrix: Solid
Analysis Batch: 25249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24736

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		5.00	mg/Kg		10/02/12 08:07	10/03/12 16:57	1
C24-C40	ND		5.00	mg/Kg		10/02/12 08:07	10/03/12 16:57	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	70		50 - 150			10/02/12 08:07	10/03/12 16:57	1

Lab Sample ID: LCS 490-24736/2-A
Matrix: Solid
Analysis Batch: 25249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	40.0	36.78		mg/Kg		92	54 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
o-Terphenyl (Surr)	85		50 - 150				

Lab Sample ID: 180-14797-A-14-C MS
Matrix: Solid
Analysis Batch: 25249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	ND		45.0	42.32		mg/Kg	☒	94	10 - 142
Surrogate	%Recovery	MS Qualifier	MS Limits						
o-Terphenyl (Surr)	76		50 - 150						

Lab Sample ID: 180-14797-A-14-D MSD
Matrix: Solid
Analysis Batch: 25249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 24736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		44.6	40.06		mg/Kg	☒	90	10 - 142	5	47

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: 180-14797-A-14-D MSD
 Matrix: Solid
 Analysis Batch: 25249

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 24736

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl (Surr)	73		50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 490-7942-B-1 DU
 Matrix: Solid
 Analysis Batch: 24496

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Percent Solids	94		93		%		1	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

GC/MS VOA

Prep Batch: 24860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	5035	
490-8013-2	OS 10S	Total/NA	Solid	5035	
490-8013-3	OS 20S	Total/NA	Solid	5035	

Prep Batch: 24861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	5035	
490-8013-2	OS 10S	Total/NA	Solid	5035	
490-8013-3	OS 20S	Total/NA	Solid	5035	

Analysis Batch: 25773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	8260B	24861
490-8013-2	OS 10S	Total/NA	Solid	8260B	24861
490-8013-3	OS 20S	Total/NA	Solid	8260B	24861
LCS 490-25773/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-25773/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-25773/6	Method Blank	Total/NA	Solid	8260B	
MB 490-25773/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 26095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	8260B	24860
490-8013-1	OS 5S	Total/NA	Solid	8260B	24860
490-8013-1	OS 5S	Total/NA	Solid	8260B	24860
490-8013-2	OS 10S	Total/NA	Solid	8260B	24860
490-8013-3	OS 20S	Total/NA	Solid	8260B	24860
490-8013-3	OS 20S	Total/NA	Solid	8260B	24860
LCS 490-26095/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-26095/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-26095/7	Method Blank	Total/NA	Solid	8260B	
MB 490-26095/8	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 26524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-2	OS 10S	Total/NA	Solid	8260B	24860
LCS 490-26524/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-26524/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-26524/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 24824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	3550C	
490-8013-2	OS 10S	Total/NA	Solid	3550C	
490-8013-3	OS 20S	Total/NA	Solid	3550C	
LCS 490-24824/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-24824/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

GC/MS Semi VOA (Continued)

Analysis Batch: 24882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	8270D	24824
490-8013-2	OS 10S	Total/NA	Solid	8270D	24824
490-8013-3	OS 20S	Total/NA	Solid	8270D	24824
LCS 490-24824/2-A	Lab Control Sample	Total/NA	Solid	8270D	24824
MB 490-24824/1-A	Method Blank	Total/NA	Solid	8270D	24824

Analysis Batch: 25228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	8270D	24824
490-8013-1	OS 5S	Total/NA	Solid	8270D	24824
490-8013-2	OS 10S	Total/NA	Solid	8270D	24824
490-8013-3	OS 20S	Total/NA	Solid	8270D	24824
490-8013-3	OS 20S	Total/NA	Solid	8270D	24824

GC VOA

Prep Batch: 24795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14797-A-18-C MS	Matrix Spike	Total/NA	Solid	5030B	
180-14797-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Prep Batch: 24857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	5035	
490-8013-2	OS 10S	Total/NA	Solid	5035	
490-8013-3	OS 20S	Total/NA	Solid	5035	

Analysis Batch: 24896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14797-A-18-C MS	Matrix Spike	Total/NA	Solid	8015C	24795
180-14797-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	24795
490-8013-1	OS 5S	Total/NA	Solid	8015C	24857
490-8013-2	OS 10S	Total/NA	Solid	8015C	24857
490-8013-3	OS 20S	Total/NA	Solid	8015C	24857
LCS 490-24896/17	Lab Control Sample	Total/NA	Solid	8015C	
LCS 490-24896/18	Lab Control Sample	Total/NA	Solid	8015C	
MB 490-24896/13	Method Blank	Total/NA	Solid	8015C	
MB 490-24896/14	Method Blank	Total/NA	Solid	8015C	

GC Semi VOA

Prep Batch: 24736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14797-A-14-C MS	Matrix Spike	Total/NA	Solid	3550C	
180-14797-A-14-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-8013-1	OS 5S	Total/NA	Solid	3550C	
490-8013-2	OS 10S	Total/NA	Solid	3550C	
490-8013-3	OS 20S	Total/NA	Solid	3550C	
LCS 490-24736/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-24736/1-A	Method Blank	Total/NA	Solid	3550C	

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

GC Semi VOA (Continued)

Analysis Batch: 25249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14797-A-14-C MS	Matrix Spike	Total/NA	Solid	8015C	24736
180-14797-A-14-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015C	24736
490-8013-1	OS 5S	Total/NA	Solid	8015C	24736
490-8013-2	OS 10S	Total/NA	Solid	8015C	24736
490-8013-3	OS 20S	Total/NA	Solid	8015C	24736
LCS 490-24736/2-A	Lab Control Sample	Total/NA	Solid	8015C	24736
MB 490-24736/1-A	Method Blank	Total/NA	Solid	8015C	24736

Analysis Batch: 25575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8013-1	OS 5S	Total/NA	Solid	8015C	24736
490-8013-2	OS 10S	Total/NA	Solid	8015C	24736
490-8013-3	OS 20S	Total/NA	Solid	8015C	24736

General Chemistry

Analysis Batch: 24496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-7942-B-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-8013-1	OS 5S	Total/NA	Solid	Moisture	
490-8013-2	OS 10S	Total/NA	Solid	Moisture	
490-8013-3	OS 20S	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 5S

Date Collected: 09/26/12 16:25

Date Received: 09/29/12 08:30

Lab Sample ID: 490-8013-1

Matrix: Solid

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			24861	10/02/12 11:36	MLN	TAL NSH
Total/NA	Analysis	8260B		1	25773	10/05/12 15:38	AJF	TAL NSH
Total/NA	Analysis	8260B		20	26095	10/06/12 12:49	AJF	TAL NSH
Total/NA	Prep	5035			24860	10/02/12 11:32	MLN	TAL NSH
Total/NA	Analysis	8260B		200	26095	10/06/12 13:19	AJF	TAL NSH
Total/NA	Analysis	8260B		2	26095	10/06/12 19:20	AJF	TAL NSH
Total/NA	Analysis	8270D		1	24882	10/02/12 21:51	KJP	TAL NSH
Total/NA	Analysis	8270D		20	25228	10/03/12 17:09	KJP	TAL NSH
Total/NA	Prep	3550C			24824	10/02/12 10:52	AJK	TAL NSH
Total/NA	Analysis	8270D		5	25228	10/03/12 16:45	KJP	TAL NSH
Total/NA	Prep	5035			24857	10/02/12 11:26	MLN	TAL NSH
Total/NA	Analysis	8015C		1	24896	10/02/12 23:49	BDH	TAL NSH
Total/NA	Prep	3550C			24736	10/02/12 08:07	AJK	TAL NSH
Total/NA	Analysis	8015C		1	25249	10/03/12 22:20	JDJ	TAL NSH
Total/NA	Analysis	8015C		5	25575	10/04/12 13:27	JML	TAL NSH
Total/NA	Analysis	Moisture		1	24496	10/01/12 09:03	RRS	TAL NSH

Client Sample ID: OS 10S

Date Collected: 09/26/12 17:10

Date Received: 09/29/12 08:30

Lab Sample ID: 490-8013-2

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			24861	10/02/12 11:36	MLN	TAL NSH
Total/NA	Analysis	8260B		1	25773	10/05/12 16:08	AJF	TAL NSH
Total/NA	Analysis	8260B		2	26095	10/06/12 18:20	AJF	TAL NSH
Total/NA	Prep	5035			24860	10/02/12 11:32	MLN	TAL NSH
Total/NA	Analysis	8260B		200	26524	10/09/12 08:39	AJF	TAL NSH
Total/NA	Prep	3550C			24824	10/02/12 10:52	AJK	TAL NSH
Total/NA	Analysis	8270D		1	24882	10/02/12 22:14	KJP	TAL NSH
Total/NA	Analysis	8270D		5	25228	10/03/12 17:32	KJP	TAL NSH
Total/NA	Prep	5035			24857	10/02/12 11:26	MLN	TAL NSH
Total/NA	Analysis	8015C		1	24896	10/03/12 00:10	BDH	TAL NSH
Total/NA	Analysis	8015C		1	25249	10/03/12 22:34	JDJ	TAL NSH
Total/NA	Prep	3550C			24736	10/02/12 08:07	AJK	TAL NSH
Total/NA	Analysis	8015C		2	25575	10/04/12 13:41	JML	TAL NSH
Total/NA	Analysis	Moisture		1	24496	10/01/12 09:03	RRS	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Client Sample ID: OS 20S

Lab Sample ID: 490-8013-3

Date Collected: 09/26/12 08:45

Matrix: Solid

Date Received: 09/29/12 08:30

Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			24861	10/02/12 11:36	MLN	TAL NSH
Total/NA	Analysis	8260B		1	25773	10/05/12 16:39	AJF	TAL NSH
Total/NA	Analysis	8260B		20	26095	10/06/12 14:49	AJF	TAL NSH
Total/NA	Prep	5035			24860	10/02/12 11:32	MLN	TAL NSH
Total/NA	Analysis	8260B		2	26095	10/06/12 18:50	AJF	TAL NSH
Total/NA	Analysis	8270D		1	24882	10/02/12 22:37	KJP	TAL NSH
Total/NA	Prep	3550C			24824	10/02/12 10:52	AJK	TAL NSH
Total/NA	Analysis	8270D		5	25228	10/03/12 17:55	KJP	TAL NSH
Total/NA	Analysis	8270D		20	25228	10/03/12 18:19	KJP	TAL NSH
Total/NA	Prep	5035			24857	10/02/12 11:26	MLN	TAL NSH
Total/NA	Analysis	8015C		1	24896	10/03/12 00:30	BDH	TAL NSH
Total/NA	Prep	3550C			24736	10/02/12 08:07	AJK	TAL NSH
Total/NA	Analysis	8015C		1	25249	10/03/12 22:48	JDJ	TAL NSH
Total/NA	Analysis	8015C		2	25575	10/04/12 13:55	JML	TAL NSH
Total/NA	Analysis	Moisture		1	24496	10/01/12 09:03	RRS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100049

TestAmerica Job ID: 490-8013-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
AIHA	IHLAP		100790	09-01-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

**Brown, Shali**

From: Perkins, Jay C [Jay.Perkins@duke-energy.com]
Sent: Friday, November 22, 2013 10:12 AM
To: Brown, Shali
Subject: FW: J12100049 Report - OS well soils.pdf
Attachments: J12100049 Report - OS well soils.pdf

Shali, just looks like ethylbenzene was left off of sample 490-8013-3... If you can resubmit the report that should work.

Thanks,
Jay

From: Clark, Andy M [mailto:Andy.Clark@amec.com]
Sent: Friday, November 22, 2013 10:54 AM
To: Perkins, Jay C
Cc: Teichert, William P
Subject: J12100049 Report - OS well soils.pdf

Jay,

We just noticed that for some reason, ethylbenzene was not reported for our sample OS-20S in the attached report (lab sample ID 490-8013-3). Can you double check. I am guessing the lab ran it, but it just was cut off of the report somehow. We are trying to turn around a final report to SCDHEC and would be great if we could insert that data point for our table...even if the lab were to issue a revised report at a later date.

Thanks!

Andy

The information contained in this e-mail is intended only for the individual or entity to whom it is addressed. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

COOLER RECEIPT FORM



490-8013 Chain of

Cooler Received/Opened On 9/28/2012 @ 8:30

1. Tracking # 2563 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 3.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) 4/3

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA balls

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) Ⓟ

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) Ⓟ

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) Ⓟ

I certify that I attached a label with the unique LIMS number to each container (initial) Ⓟ

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

44001240

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Site A10, Anchorage, AK 99502-1119

253-922-2310
 509-924-9200
 503-906-9200
 907-563-9200

FAX 922-5047
 FAX 924-9290
 FAX 906-9210
 FAX 563-9210

11/26/2013

CHAIN OF CUSTODY REPORT

INVOICE TO: *Bryce*

Work Order #:

TURNAROUND REQUEST
 in Business Days *

CLIENT: Andy Clark, Paul Reinert, Angela Adams
 REPORT TO: AMEC
 ADDRESS: 2501 Yorkmont Rd Charlotte, NC 28208
 PHONE: 704-357-8600 FAX:

INVOICE NUMBER: 285674

PROJECT NAME: Spartanburg MGP
 PROJECT NUMBER: 6228120021

4-Month 2-Week 3-Min

PO NUMBER: 285674
 PRESERVATIVE

REQUESTED ANALYSES

Organic & Inorganic Analyzes
 Petroleum Hydrocarbon Analyzes

<input checked="" type="checkbox"/> 10 STD.	<input type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> <1
Petroleum Hydrocarbon Analyzes							
<input type="checkbox"/> 5 STD.	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> <1		

OTHER Specify: _____

SAMPLED BY:	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	4-Month 2-Week 3-Min			REQUESTED ANALYSES			TA W/O ID			
			VOCs	SVOCs	TPH-100	TPH-200						
	OS 5S	9-26-12 / 1625	X	X	X	X			S	9		
	OS 10S	9-26-12 / 1710	X	X	X	X			S	9		
	OS 20S	9-27-12 / 0845	X	X	X	X			S	9		

Loc: 490
8013

RELEASER BY: *AK* FIRM: AMEC DATE: 9/27/12 TIME: 1537 RECEIVED BY: *C. Boulban* FIRM: TA DATE: 9-27-12 TIME: 1800 PRINT NAME: *C. Boulban* FIRM: TA
 PRINT NAME: *C. Boulban* FIRM: TA
 ADDITIONAL REMARKS: FIRM: TA
 DATE: 9-27-12 TIME: 1537
 DATE: 9-27-12 TIME: 08130
 PAGE OF

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.		
(2) Save the file & e-mail to:		labcustomer@duke-energy.com
Questions / Problems Call:		704-875-5245
Customer Information		
<u>Name</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Andy Clark	704-357-5630	704-953-6833
<u>Fax</u>	<u>e-Mail Address</u>	
	andy.clark@amec.com	
Accounting Fields		
** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. **	<u>Field Type</u>	<u>Specific Field</u>
Sampling Information		
<u>Sampling Personnel / Contractor</u>	<u>Scheduled Sampling Date</u>	<u>Date Sample Kit Needed</u>
AMEC	9/7/2012	9/6/2012
Shipping Address for Kit		
<u>Name</u>	<u>Phone</u>	<u>Mail Code</u>
Mike Flanik	704-357-5617	704-659-1232
<u>Street Address - street address and town needed</u>	<u>State</u>	<u>Zip Code</u>
2801 Yorkmont Rd, Charlotte	NC	28208
Reporting		
<u>Report Due Date</u>	<u>Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard</u>	
9/28/2012	.pdf and excel	
<u>Report To (e-Mail Address 1)</u>	<u>Report To (e-Mail Address 2)</u>	<u>Report to (e-Mail Address 3)</u>
andy.clark@amec.com	angela.adams@amec.com	
Project Specifics		
<u>Project Name</u>		<u>Program Type</u>
Spartanburg MGP		
<u>Site, Location or Station</u>	<u>State</u>	<u>Approximate Number of Days Sampling is Scheduled</u>
Pine Street, Spartanburg	SC	1
<u>Notes, Special Requests, Required Contract Lab to use, etc.</u> (LIMS Job Number-Duke Lab Provides)		
AMEC can pick sample jars up from Duke. TPH, VOC, and SVOC analysis. Also, request 24 x 16 oz jars to collect additional soil for bench scale testing. The 16 oz jars will be sent to FMC Corporation for the bench testing.		
<u>Bottles</u>	<u>Matrix</u>	<u>Variables, Methods</u>
4	Soil	TPH - 5035/8015M
4	Soil	VOCs - 8260 (Prep 5035) - Encore kits
4	Soil	SVOCs - 8260
24 x 16 oz jars	Soil	For bench testing (see note above)

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-8013-1

Login Number: 8013

List Source: TestAmerica Nashville

List Number: 1

Creator: Ford, Easton

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Environmental Solutions

Klozur[®] Persulfate Demand Test

Client: AMEC, Paul Teichert
9725 Cogdill Road
Knoxville, TN 37932
Phone: 865-218-1028

Performing Lab: FMC Corporation
Tonawanda, NY

Date September 28, 2012

I. Background

Klozur[®] activated persulfate is a strong oxidant capable of mineralizing a wide range of contaminants, including chlorinated solvents, petroleum hydrocarbons, polyaromatic hydrocarbons, gasoline additives, pesticides, and many others. Activation of the persulfate anion generates the sulfate radical, the primary species that drives the rapid destruction of the contaminants of concern. Activation can be accomplished by several methods¹: heat, transition metals, addition of hydrogen peroxide, or utilizing high pH. Choice of the activation method will depend on the contaminant of concern and site characteristics.

A chemical oxidant is not specific as to what it will oxidize. As a result, activated persulfate will not only mineralize the contaminant of concern, but a portion of the oxidant will be used in oxidizing soil organics, reduced metals, and organic species that are not of concern. In addition, activated persulfate will undergo auto-decomposition, which will be a function of temperature, concentration and activation method. The demand upon the activated persulfate from all of these components is captured in a coarse screening test termed, "Klozur Demand Test". It is dependent upon the site characteristics, such as the organic content of the soil, the mineral loading, and soil type and collectively must be considered for estimating the magnitude of oxidant dosing during field application.

The Klozur[®] Persulfate KDT test measures the loss of persulfate in the presence of soil, groundwater and activator over a period of 48 and 96 hours. The resulting KDT values can then be used as a guide to develop appropriate persulfate dosing for subsequent treatability testing and field applications.

¹ FMC is the owner of licensee under various patent applications relating to the use of activation chemistries

II. Sample Handling for AMEC

Client Sample Identification

- Soil ID: SOD-1A/AVTR-1A, SOD-2A/AVTR-2A, SOD-3A/AVTR-3A, SOD-5A/AVTR-5A, SOD-6A/AVTR-6A; GW ID: None Sent; DiH₂O Used

Handling Procedures

- The samples were received on 09/11/2012.
- During the collection of the preliminary data, the soil was well mixed, used and put into its original container after its use.
- No groundwater was sent, DiH₂O was used in its place.
- On 09/24/2012, multiple experimental samples were prepared according to the amounts shown in the results table below.
- The experimental samples were stored at room temperature and each sample was vigorously shaken once per day.
- More than 1000 grams of each soil sample is left with us. The unused soil samples will be disposed of responsibly after about one week.

III. Results

Sample ID	Run #	Trial Activator	Soil Wt. (g)	DiH ₂ O Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Soil Slurry pH	t=48hr	t=96 hr
SOD-1A/ AVTR-1A	1	H ₂ O ₂	10	30	15	2.61-2.56	14.76	14.91
	2	H ₂ O ₂	10	30	15	2.61-2.56	14.77	14.92

Sample ID	Run #	Trial Activator	Soil Wt. (g)	DiH ₂ O Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Soil Slurry pH	t=48hr	t=96 hr
SOD-2A/ AVTR-2A	1	H ₂ O ₂	10	30	15	2.50-2.48	14.90	14.95
	2	H ₂ O ₂	10	30	15	2.50-2.48	14.91	14.96

Sample ID	Run #	Trial Activator	Soil Wt. (g)	DiH ₂ O Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Soil Slurry pH	t=48hr	t=96 hr
SOD-3A/ AVTR-3A	1	H ₂ O ₂	10	30	15	2.73-2.61	14.69	14.93
	2	H ₂ O ₂	10	30	15	2.73-2.61	14.69	14.95

Sample ID	Run #	Trial Activator	Soil Wt. (g)	DiH ₂ O Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Soil Slurry pH	t=48hr	t=96 hr
SOD-5A/ AVTR-5A	1	H ₂ O ₂	10	30	15	2.62-2.57	14.88	15.23
	2	H ₂ O ₂	10	30	15	2.62-2.57	14.89	15.27

Sample ID	Run #	Trial Activator	Soil Wt. (g)	DiH ₂ O Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Soil Slurry pH	t=48hr	t=96 hr
SOD-6A/ AVTR-6A	1	H ₂ O ₂	10	30	15	2.68-2.64	15.76	21.83
	2	H ₂ O ₂	10	30	15	2.68-2.64	16.04	22.87

IV. Conclusions

The Klozur® Persulfate demand with hydrogen peroxide activation for the Soil SOD-1/AVTR-1 ranges from approximately 14.76 – 14.92 g persulfate / kg soil, which is considered high as compared to persulfate SOD for most soils. Based on these values, an average of 14.84 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with hydrogen peroxide activation for the Soil SOD-2/AVTR-2 ranges from approximately 14.90 – 14.96 g persulfate / kg soil, which is considered high as compared to persulfate SOD for most soils. Based on these values, an average of 14.93 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with hydrogen peroxide activation for the Soil SOD-3/AVTR-3 ranges from approximately 14.69 – 14.95 g persulfate / kg soil, which is considered high as compared to persulfate SOD for most soils. Based on these values, an average of 14.82 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with hydrogen peroxide activation for the Soil SOD-5/AVTR-5 ranges from approximately 14.88 – 15.27 g persulfate / kg soil, which is considered high as compared to persulfate SOD for most soils. Based on these values, an average of 15.07 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with hydrogen peroxide activation for the Soil SOD-6/AVTR-6 ranges from approximately 15.76 – 22.87 g persulfate / kg soil, which is considered high as compared to persulfate SOD for most soils. Based on these values, an average of 19.13 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

It was noted that some of the soil and groundwater samples received by our lab were suspected of containing an unknown amount of contaminant present in the samples. SOD-5/AVTR-5 and SOD-6/AVTR-6 were of specific concern. SOD testing is usually performed on clean soils with similar lithology from the contaminant zone. Samples containing contaminant will have a higher SOD than uncontaminated soil samples, as a portion of the oxidant will be utilized in the destruction of the contaminant versus interacting with soil components. As a result, due to the presence of contaminants within the sample, the measured SOD is anticipated to be somewhat higher than the actual site SOD.

V. Authorizing Signatures

This report contains the results as determined by FMC laboratory protocol and are accurately represented herein.

Jennifer Lindsey

FMC Customer Representative

Note: 1. FMC recommends performing suitable treatability testing and field pilot demonstration to determine the effectiveness of Klozur[®] activated persulfate on the contaminants of concern. KDT testing provides only an indication of the minimum amount of oxidant required to overcome the demands of soil, groundwater and other secondary species that contribute to the usage of the oxidant. The KDT results do not imply a guarantee of efficacy of the activated persulfate in actual field situations. 2. ANY SUCH QUANTITY OR WARRANTY IS EXPRESSLY DISCLAIMED.

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Klozur[®] Persulfate Demand Test

Client: AMEC , R Paul Teichert
9725 Cogdill Road
Knoxville, TN 37932
Phone: 865.218.1028

Performing Lab: FMC Corporation
Tonawanda, NY

Date September 26, 2012

I. Background

Klozur[®] activated persulfate is a strong oxidant capable of mineralizing a wide range of contaminants, including chlorinated solvents, petroleum hydrocarbons, polyaromatic hydrocarbons, gasoline additives, pesticides, and many others. Activation of the persulfate anion generates the sulfate radical, the primary species that drives the rapid destruction of the contaminants of concern. Activation can be accomplished by several methods¹: heat, transition metals, addition of hydrogen peroxide, or utilizing high pH. Choice of the activation method will depend on the contaminant of concern and site characteristics.

A chemical oxidant is not specific as to what it will oxidize. As a result, activated persulfate will not only mineralize the contaminant of concern, but a portion of the oxidant will be used in oxidizing soil organics, reduced metals, and organic species that are not of concern. In addition, activated persulfate will undergo auto-decomposition, which will be a function of temperature, concentration and activation method. The demand upon the activated persulfate from all of these components is captured in a coarse screening test termed, "Klozur Demand Test". It is dependent upon the site characteristics, such as the organic content of the soil, the mineral loading, and soil type and collectively must be considered for estimating the magnitude of oxidant dosing during field application.

The Klozur[®] Persulfate KDT test measures the loss of persulfate in the presence of soil, groundwater and activator over a period of 48 and 96 hours. The resulting KDT values can then be used as a guide to develop appropriate persulfate dosing for subsequent treatability testing and field applications.

¹ FMC is the owner of licensee under various patent applications relating to the use of activation chemistries

II. Sample Handling for AMEC

Client Sample Identification

- Soil ID: SOD-1/AVTR-1, SOD-2/AVTR-2, SOD-3/AVTR-3, SOD-4/AVTR-4, SOD-5/AVTR-5, SOD-6/AVTR-6; GW ID: None Sent; DiH₂O Used

Handling Procedures

- The samples were received on 09/11/2012.
- During the collection of the preliminary data, the soil was well mixed, used and put into its original container after its use.
- No groundwater was sent, DiH₂O was used in its place.
- On 09/17/2012, multiple experimental samples were prepared according to the amounts shown in the results table below.
- The experimental samples were stored at room temperature and each sample was vigorously shaken once per day.
- More than 1000 grams of each soil sample is left with us. The unused soil samples will be disposed of responsibly after about one week.

III. Results

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-1/ AVTR-1	1	NaOH	10	30	15	11.29-11.15	0.28	0.36
	2	NaOH	10	30	15	11.29-11.15	0.28	0.37
Soil Buffering Demand = 0.57 gallons 25% NaOH/ 2000 lb of Soil Acid Generation Demand = 0.13 gallons 25% NaOH/ lb of Klozur persulfate								

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-2/ AVTR-2	1	NaOH	10	30	15	11.24-11.19	0.62	1.40
	2	NaOH	10	30	15	11.24-11.19	0.64	1.45
	Soil Buffering Demand = 0.57 gallons 25% NaOH/ 2000 lb of Soil Acid Generation Demand = 0.13 gallons 25% NaOH/ lb of Klozur persulfate							

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-3/ AVTR-3	1	NaOH	10	30	15	11.03-10.91	0.38	0.46
	2	NaOH	10	30	15	11.03-10.91	0.40	0.46
	Soil Buffering Demand = 0.66 gallons 25% NaOH/ 2000 lb of Soil Acid Generation Demand = 0.13 gallons 25% NaOH/ lb of Klozur persulfate							

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-4/ AVTR-4	1	NaOH	10	30	15	11.26-11.09	2.05	2.70
	2	NaOH	10	30	15	11.26-11.09	2.08	2.72
	Soil Buffering Demand = 0.52 gallons 25% NaOH/ 2000 lb of Soil Acid Generation Demand = 0.13 gallons 25% NaOH/ lb of Klozur persulfate							

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-5/ AVTR-5	1	NaOH	10	30	15	11.32-11.24	1.20	1.42
	2	NaOH	10	30	15	11.32-11.24	1.25	1.59
	Soil Buffering Demand		= 0.47 gallons 25% NaOH/ 2000 lb of Soil					
Acid Generation Demand		= 0.13 gallons 25% NaOH/ lb of Klozur persulfate						

Sample ID	Run #	Trial Activator	Soil Wt. (g)	Water Vol. (mL)	Klozur Dosage (g/Kg Soil) t=0 hrs.	Slurry pH	t=48hr	t=96 hr
SOD-6/ AVTR-6	1	NaOH	10	30	15	10.99-10.93	3.86	6.13
	2	NaOH	10	30	15	10.99-10.93	3.90	6.16
	Soil Buffering Demand		= 0.75 gallons 25% NaOH/ 2000 lb of Soil					
Acid Generation Demand		= 0.13 gallons 25% NaOH/ lb of Klozur persulfate						

IV. Conclusions

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-1/AVTR-1 ranges from approximately 0.28 – 0.37 g persulfate / kg soil, which is considered low as compared to persulfate SOD for most soils. Based on these values, an average of 0.32 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-2/AVTR-2 ranges from approximately 0.62 – 1.45 g persulfate / kg soil, which is considered average as compared to persulfate SOD for most soils. Based on these values, an average of 1.03 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-3/AVTR-3 ranges from approximately 0.38 – 0.46g persulfate / kg soil, which is considered low as compared to persulfate SOD for most soils. Based on these

values, an average of 0.42 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-4/AVTR-4 ranges from approximately 2.05 – 2.72g persulfate / kg soil, which is considered moderately high as compared to persulfate SOD for most soils. Based on these values, an average of 2.39 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-5/AVTR-5 ranges from approximately 1.20 – 1.59g persulfate / kg soil, which is considered slightly above average as compared to persulfate SOD for most soils. Based on these values, an average of 1.37 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

The Klozur® Persulfate demand with NaOH activation for the Soil SOD-6/AVTR-6 ranges from approximately 3.86 – 6.16g persulfate / kg soil, which is considered slightly above average as compared to persulfate SOD for most soils. Based on these values, an average of 5.01 g / kg should be used as an area SOD for further refinement of the Klozur persulfate total demand.

It was noted that some of the soil and groundwater samples received by our lab were suspected of containing an unknown amount of contaminant present in the samples. SOD-4/AVTR-4, SOD-5/AVTR-5, SOD-6/AVTR-6 were of specific concern. SOD testing is usually performed on clean soils with similar lithology from the contaminant zone. Samples containing contaminant will have a higher SOD than uncontaminated soil samples, as a portion of the oxidant will be utilized in the destruction of the contaminant versus interacting with soil components. As a result, due to the presence of contaminants within the sample, the measured SOD is anticipated to be somewhat higher than the actual site SOD.

V. Authorizing Signatures

This report contains the results as determined by FMC laboratory protocol and are accurately represented herein.

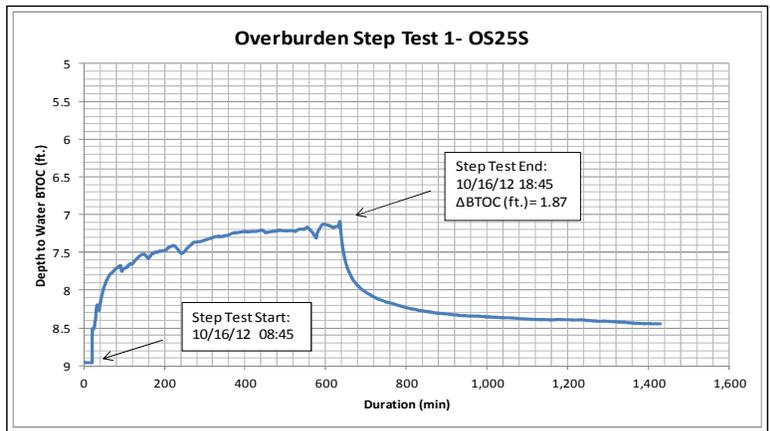
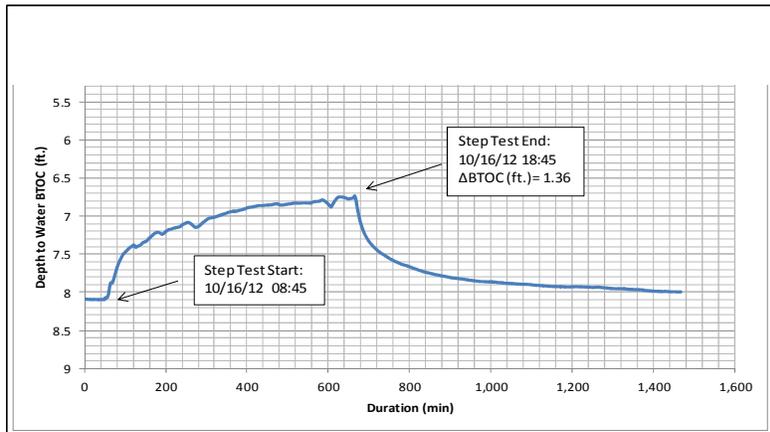
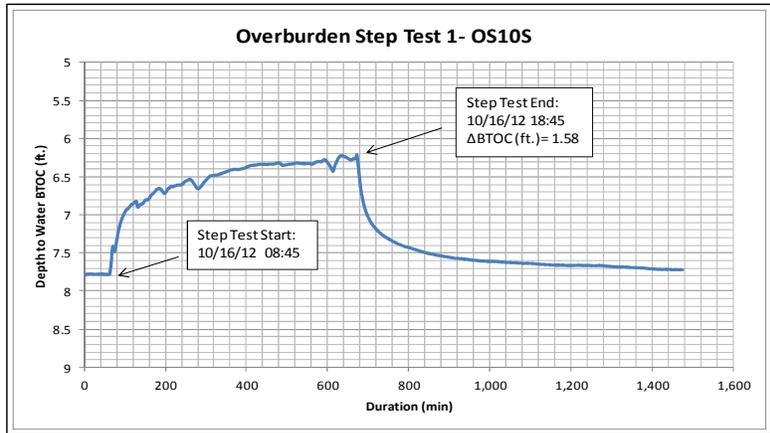
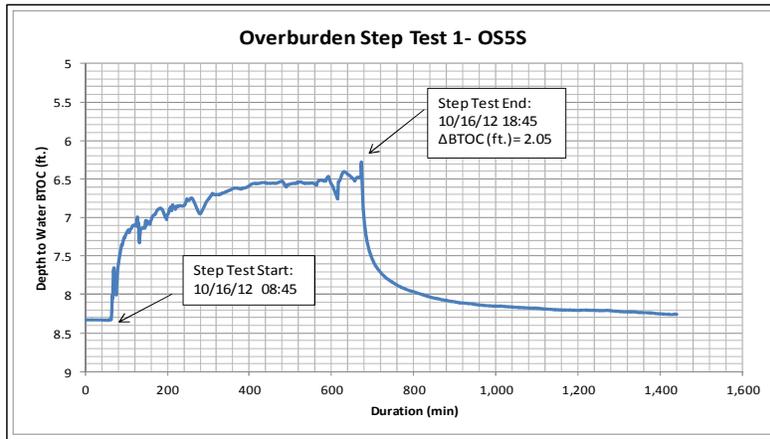
Jennifer Lindsey
FMC Customer Representative

Note: 1. FMC recommends performing suitable treatability testing and field pilot demonstration to determine the effectiveness of Klozur® activated persulfate on the contaminants of concern. KDT testing provides only an indication of the minimum amount of oxidant required to overcome the demands of soil, groundwater and other secondary species that contribute to the usage of the oxidant. The KDT results do not imply a guarantee of efficacy of the activated persulfate in actual field situations. 2. ANY SUCH QUANTITY OR WARRANTY IS EXPRESSLY DISCLAIMED.

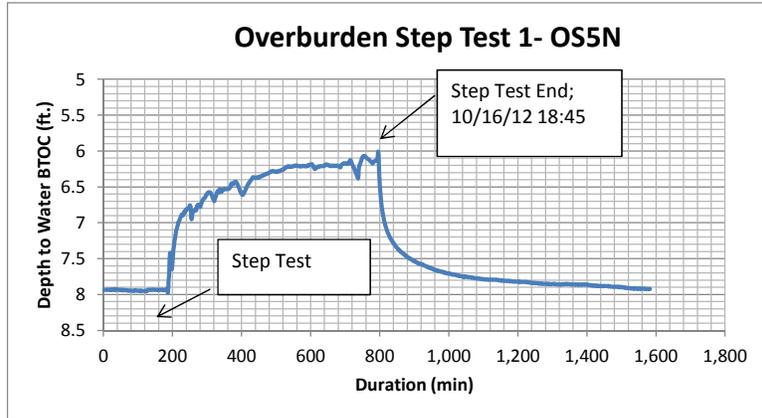
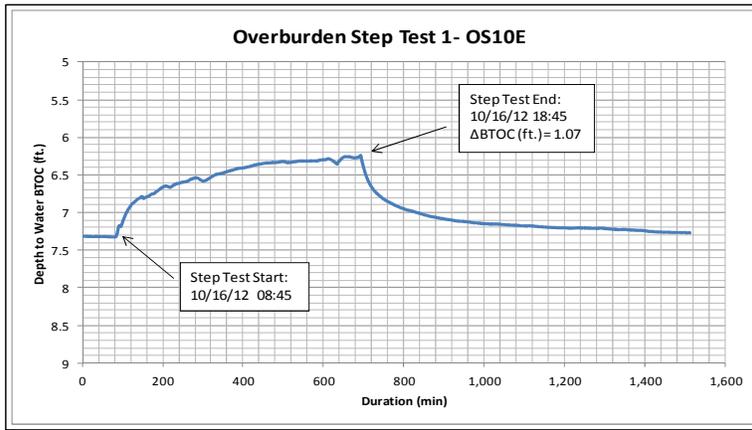
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APPENDIX B
TRANSDUCER WATER ELEVATION DATA

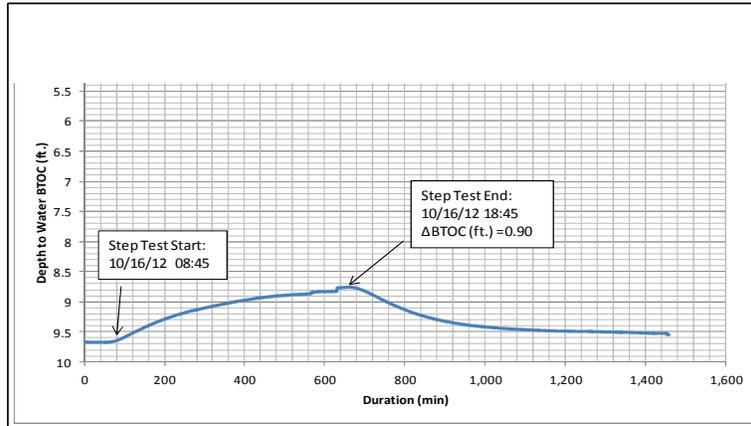
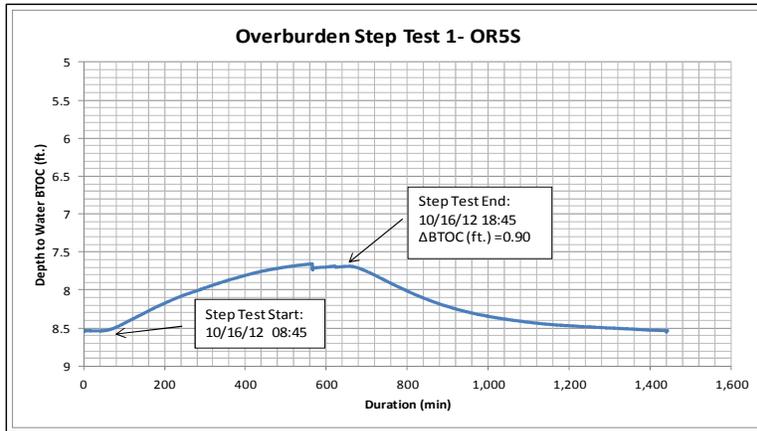
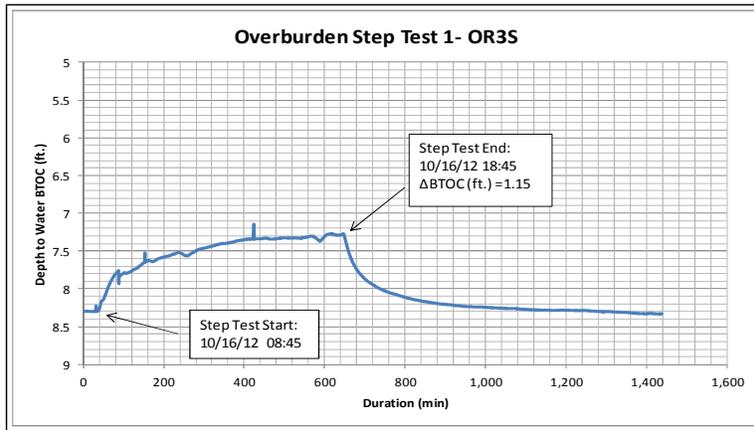
OB Step Test 1



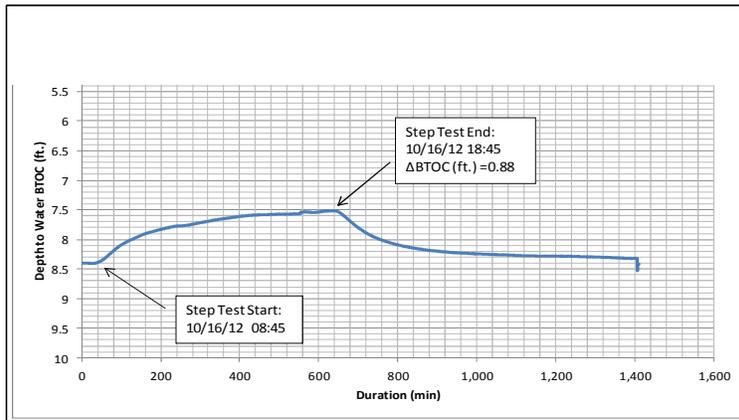
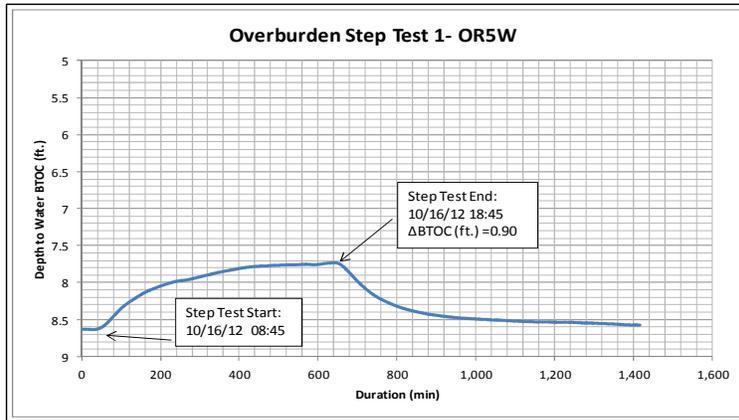
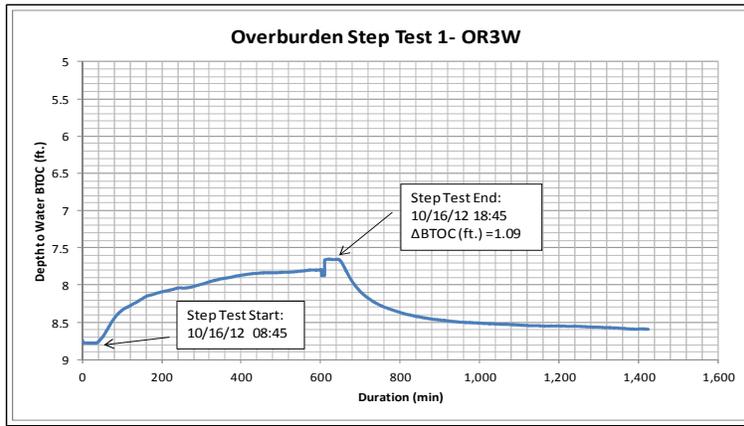
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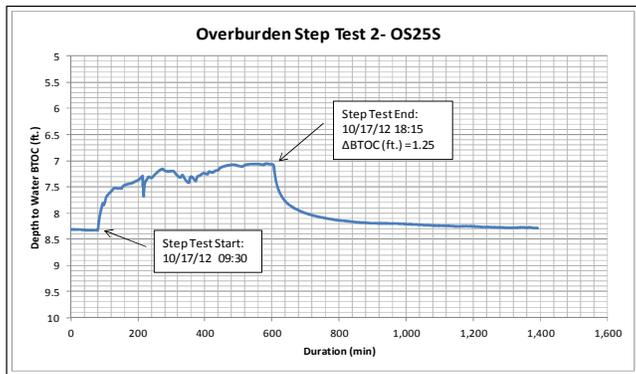
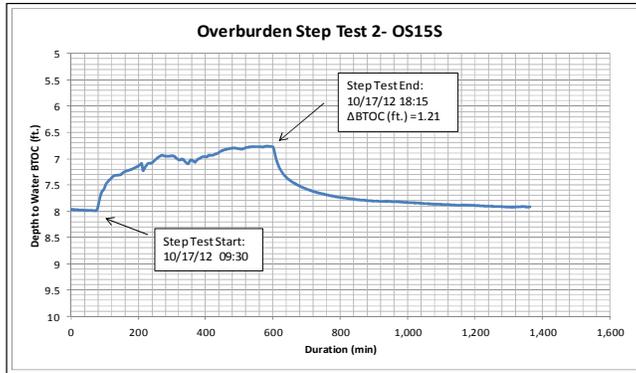
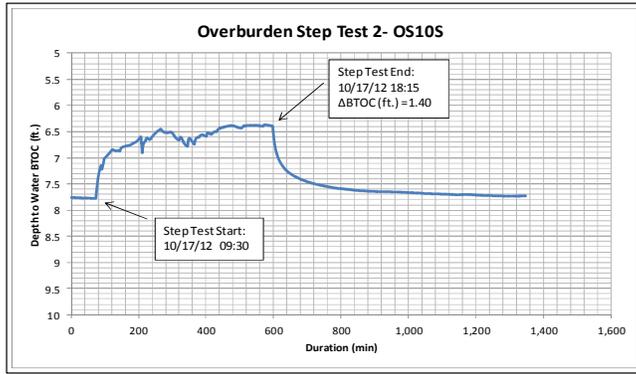
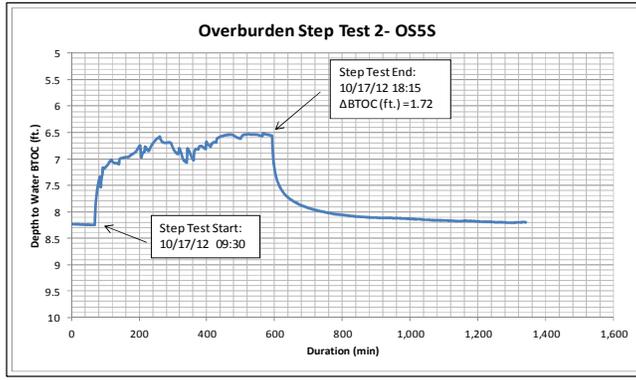


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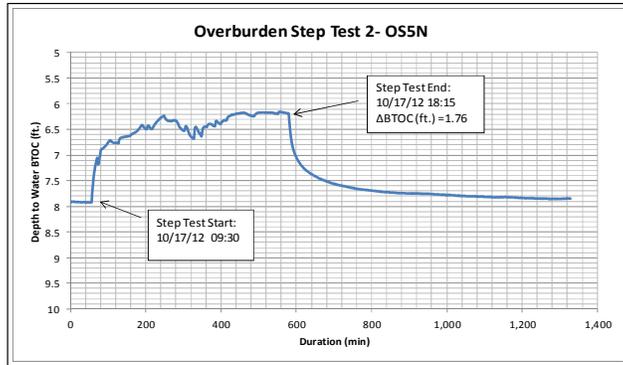
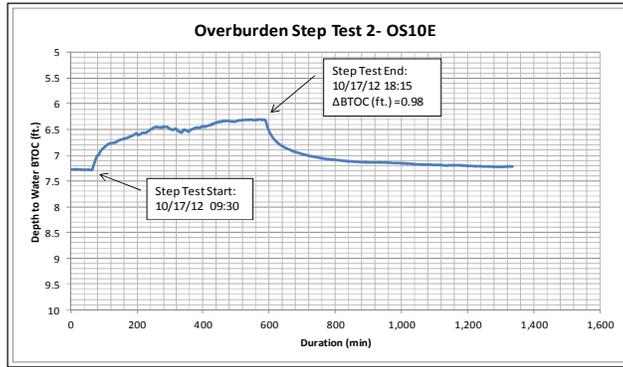
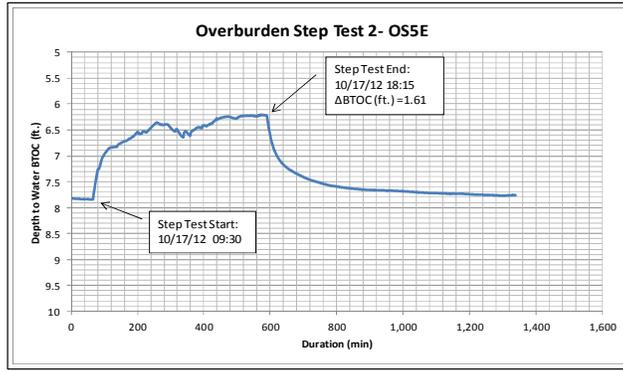


OB Step Test 1

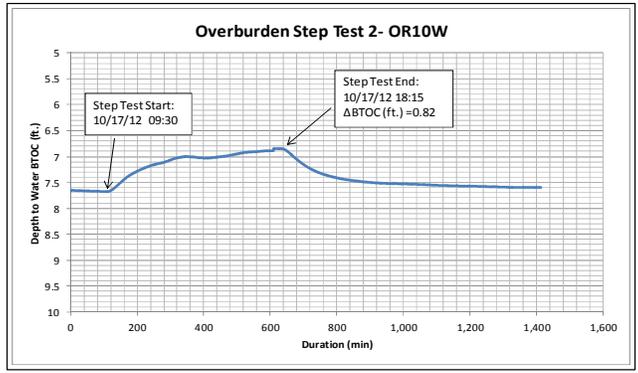
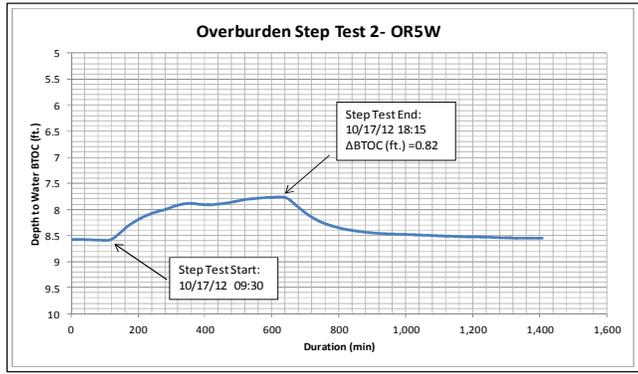
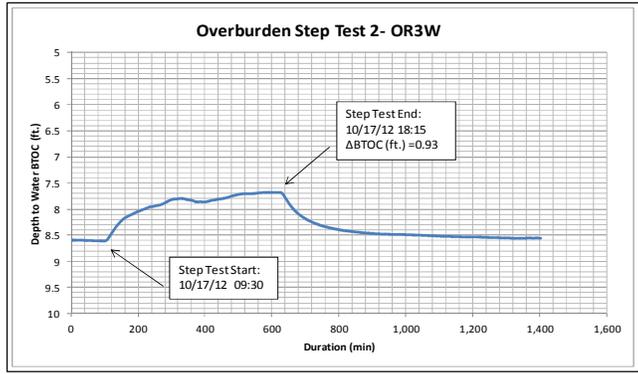


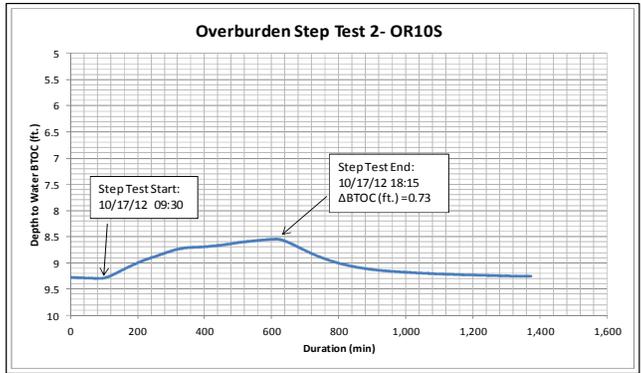
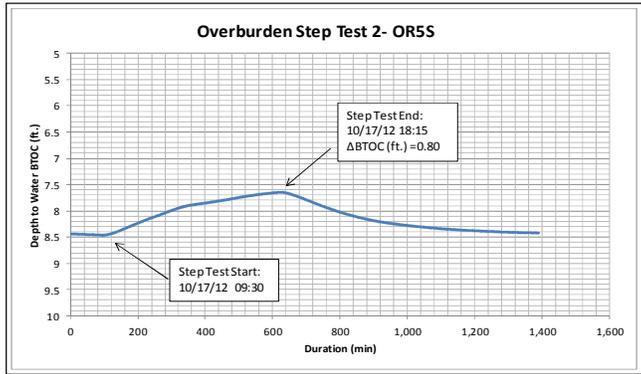
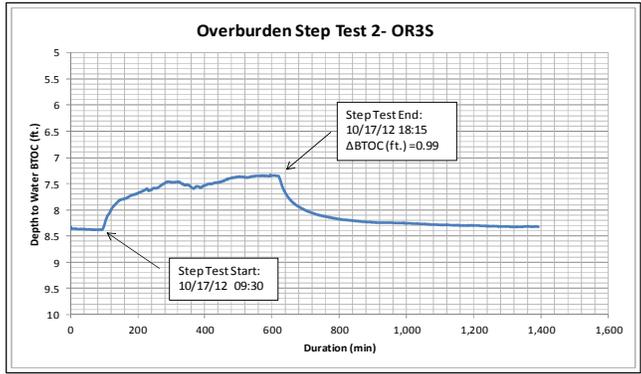


OB Step Test 2

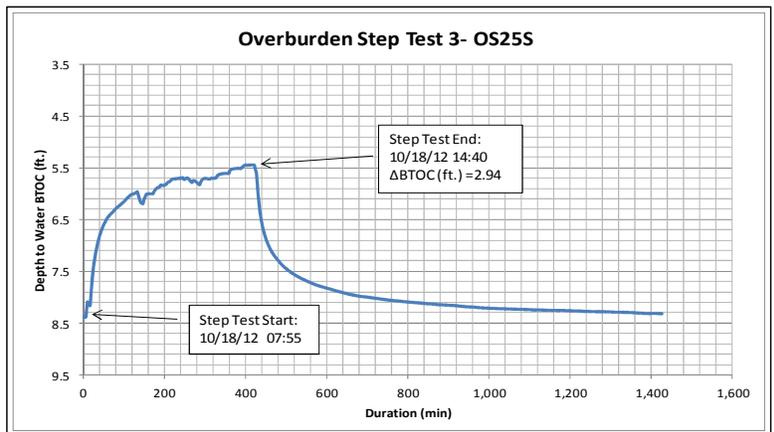
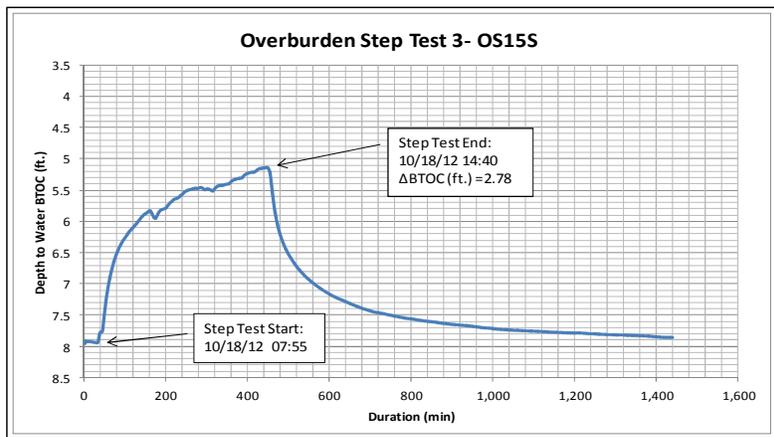
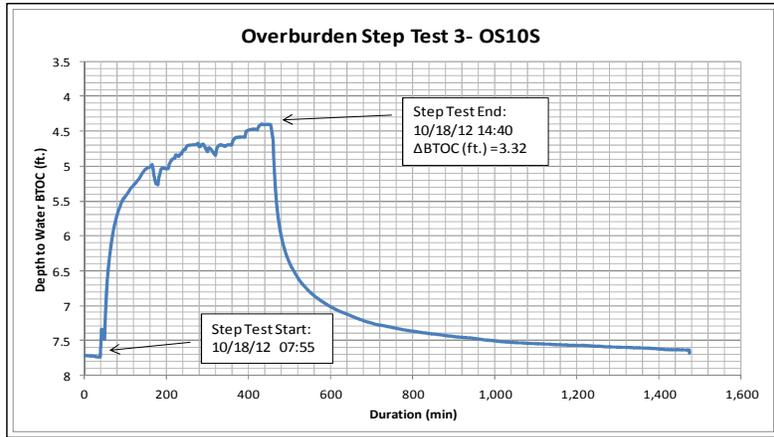
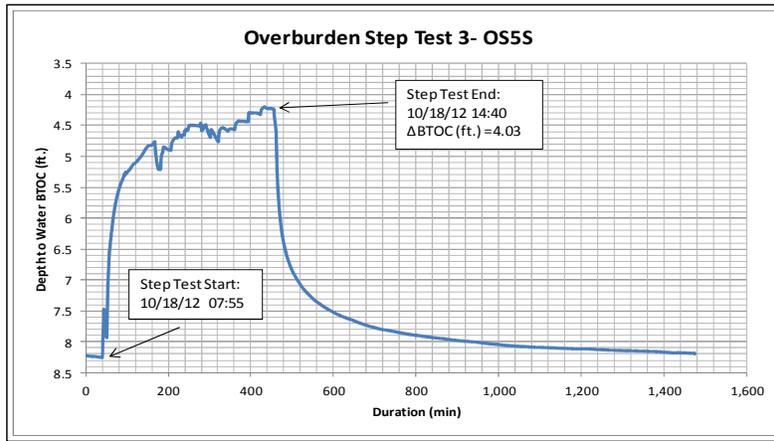


OB Step Test 2

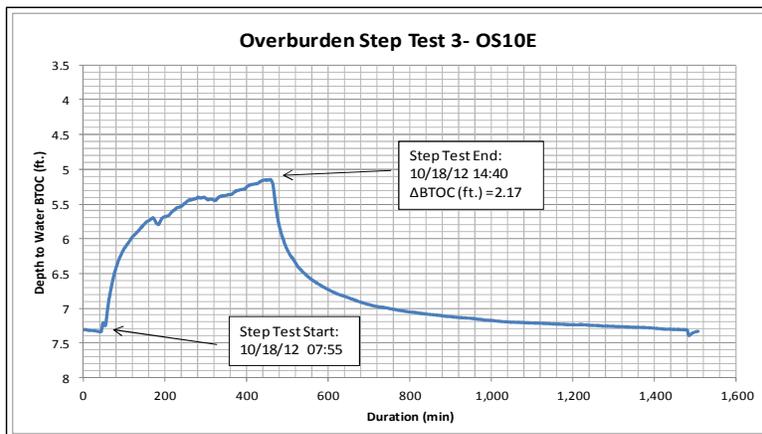
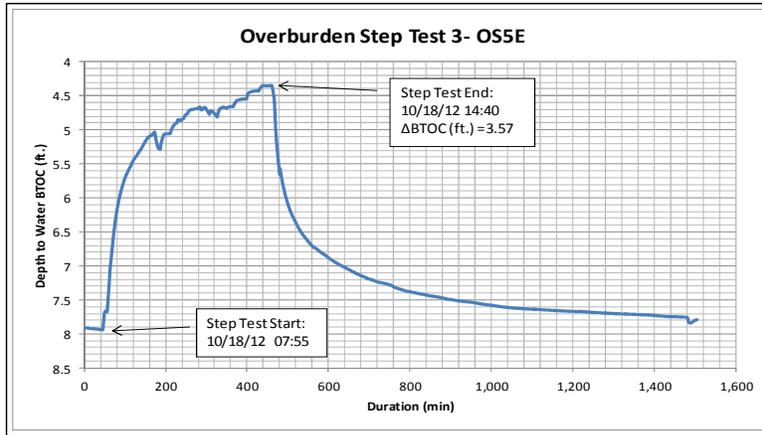
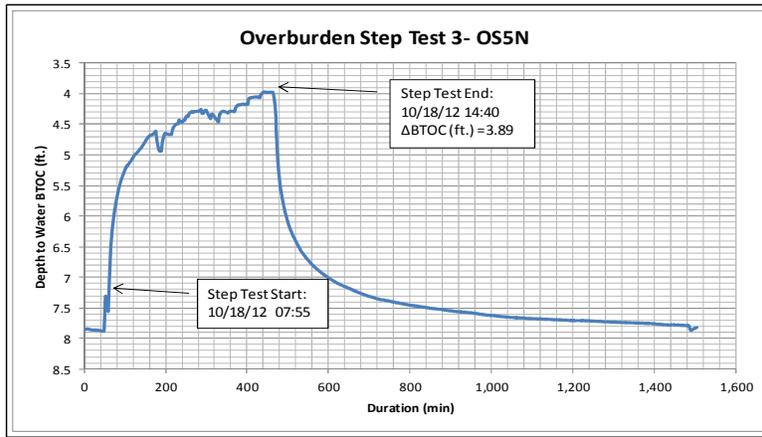




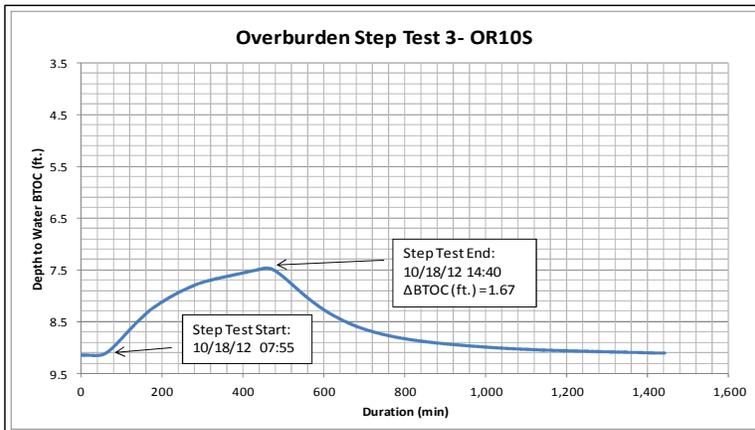
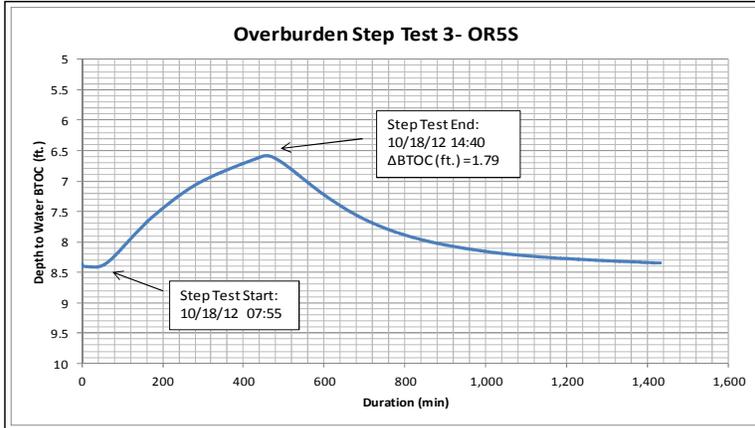
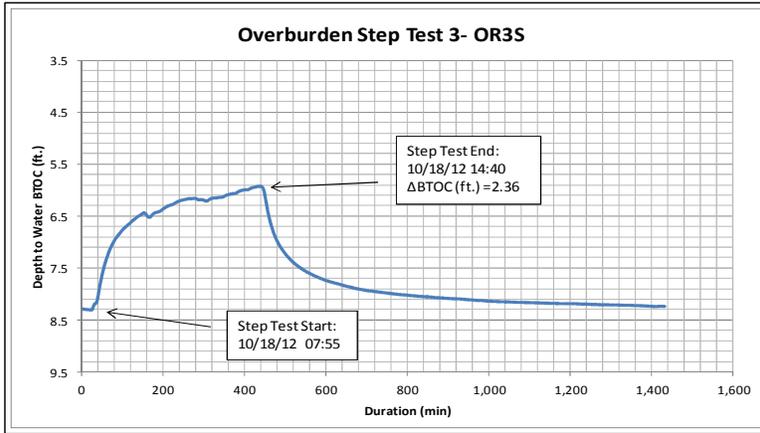
OB Step Test 3



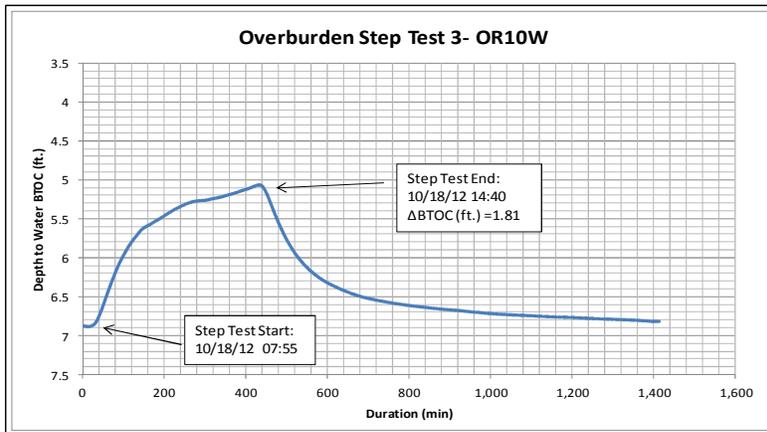
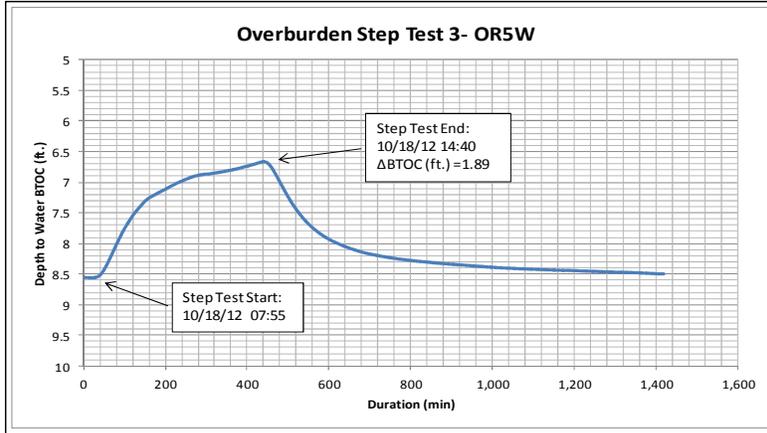
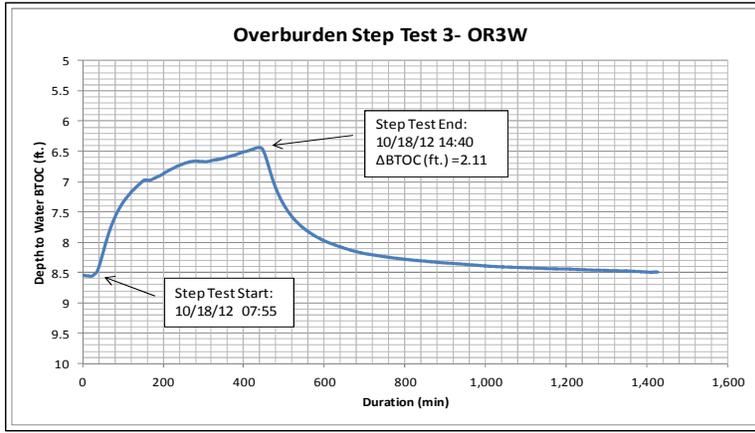
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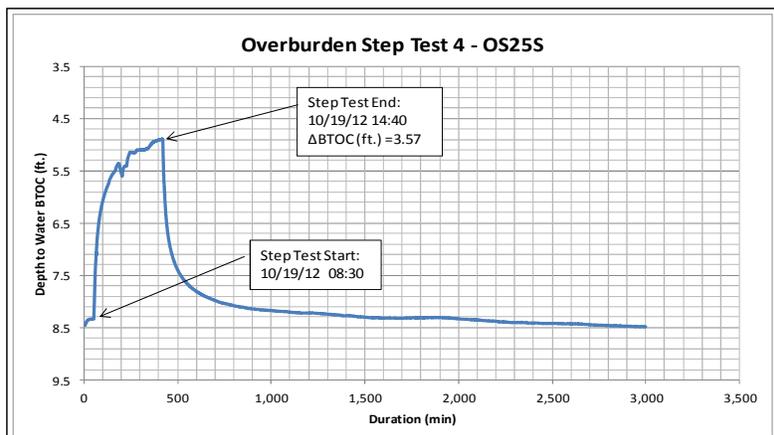
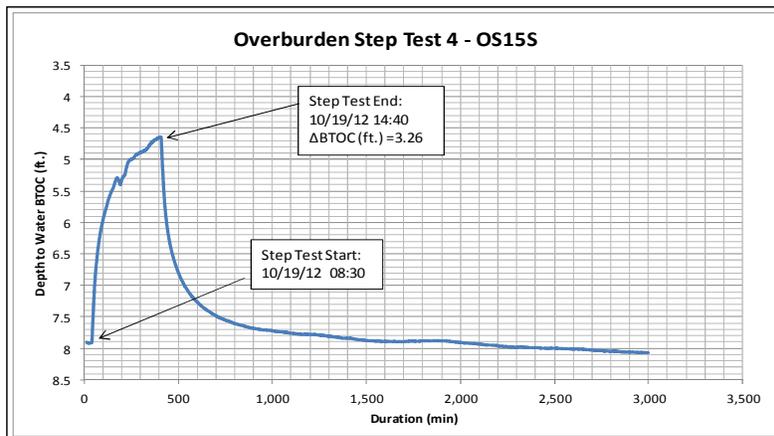
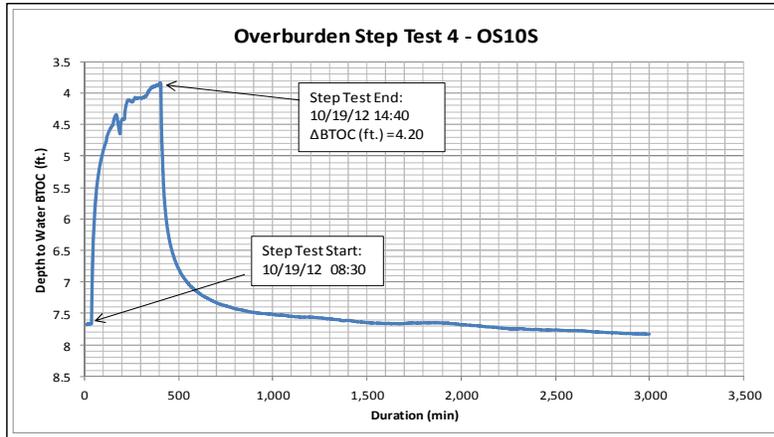
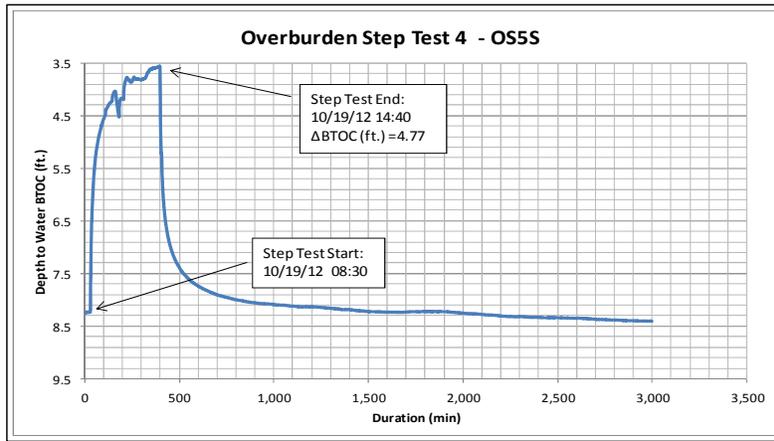
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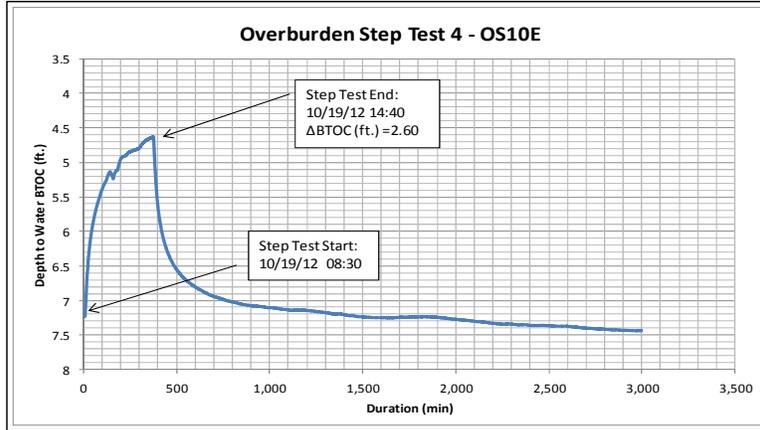
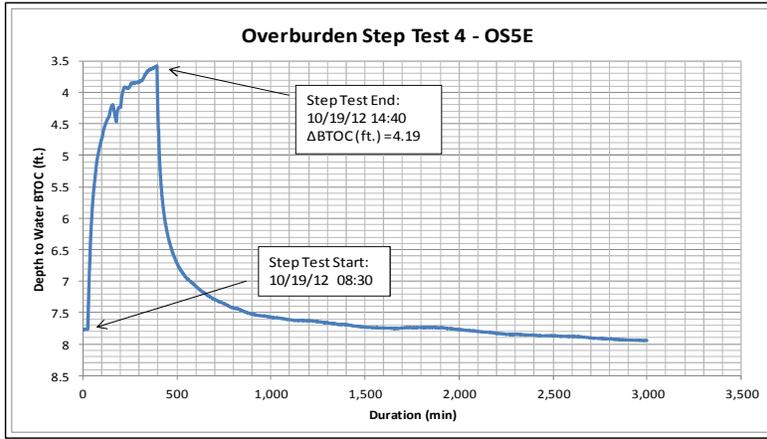
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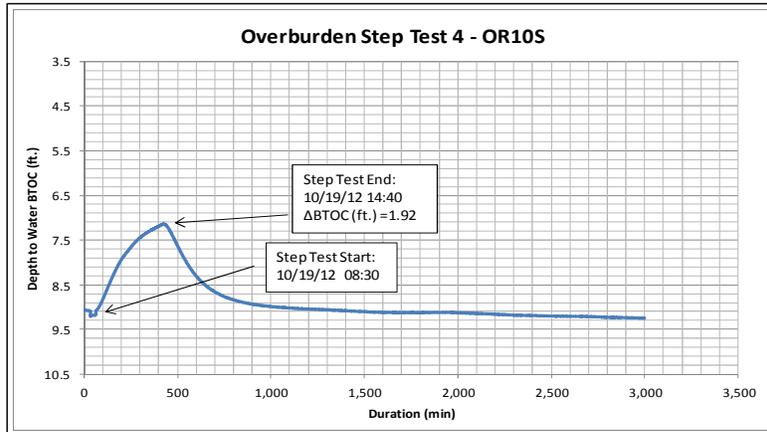
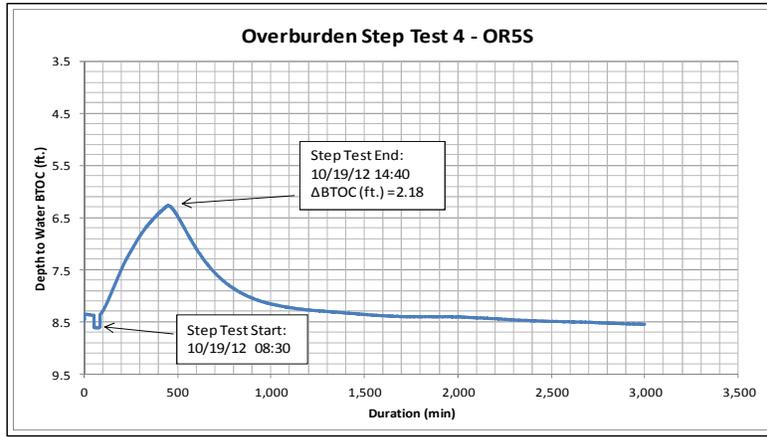
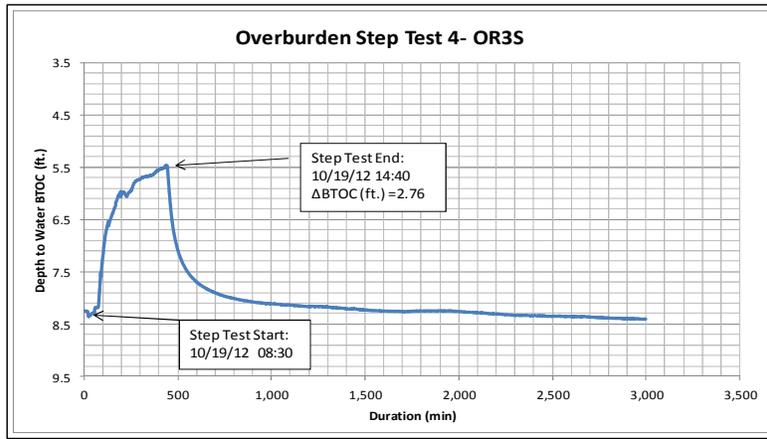
OB Step Test 4



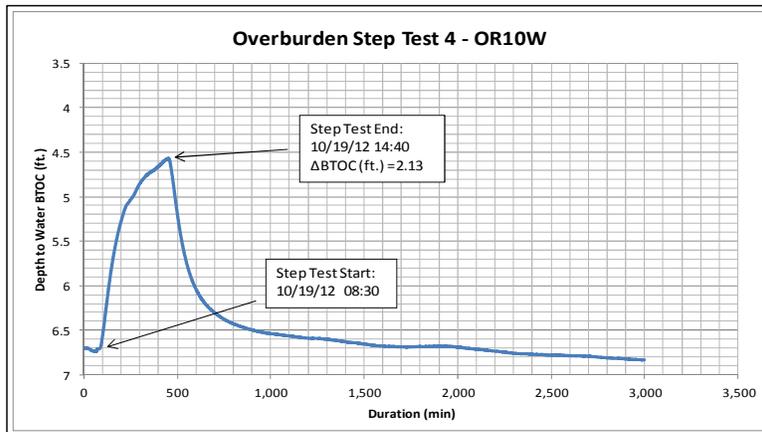
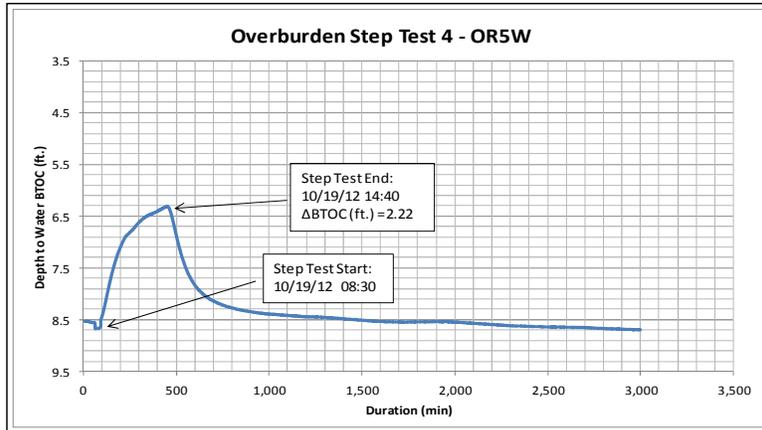
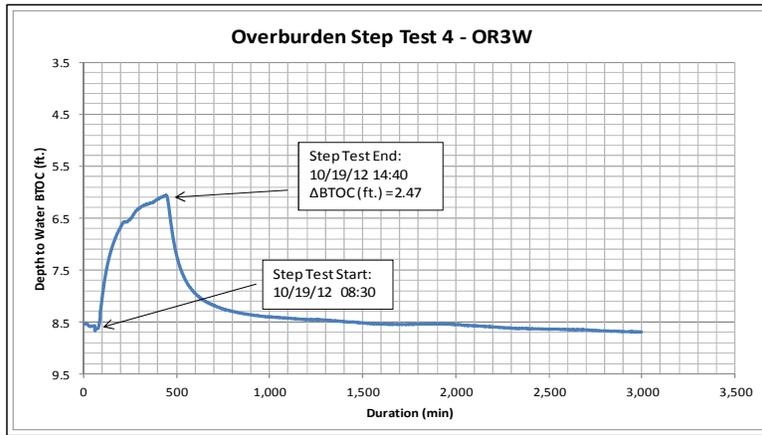
OB Step Test 4



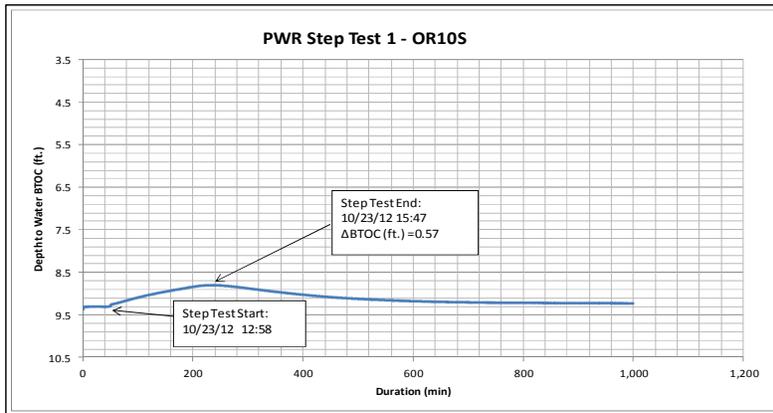
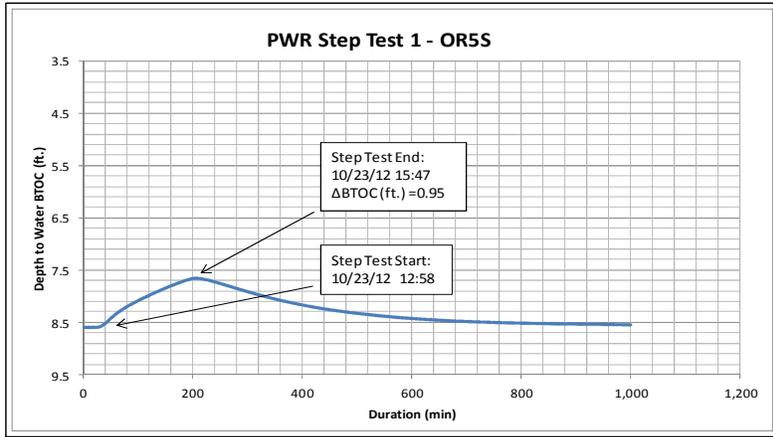
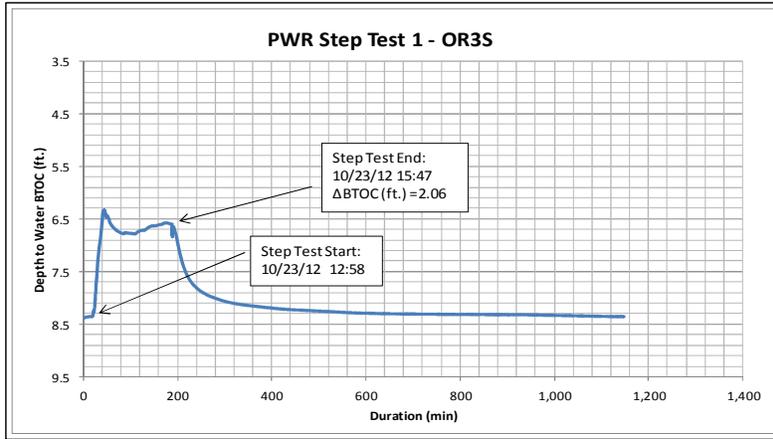
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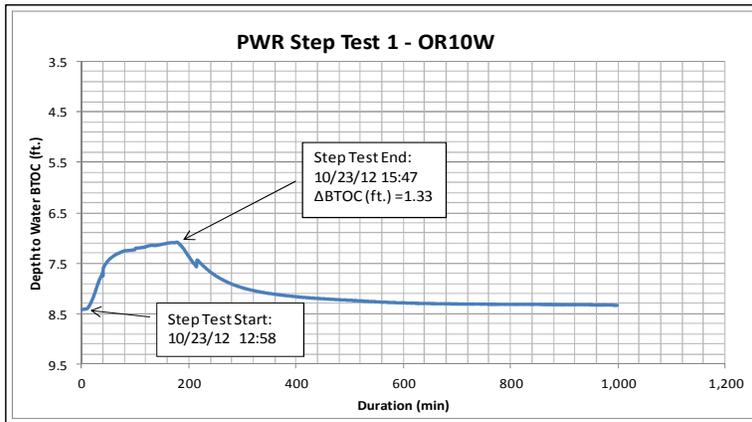
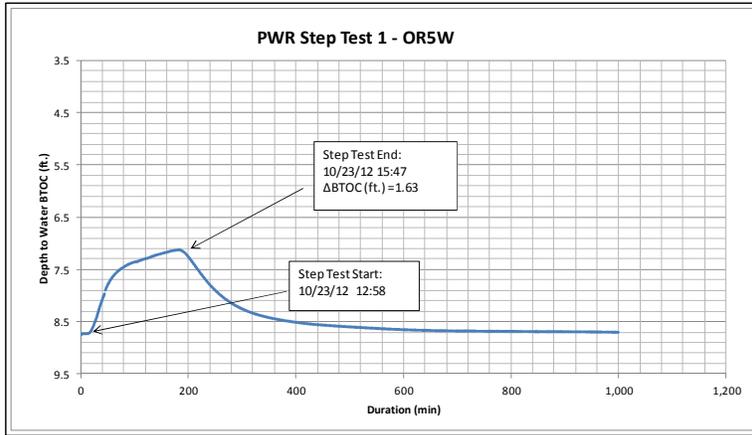
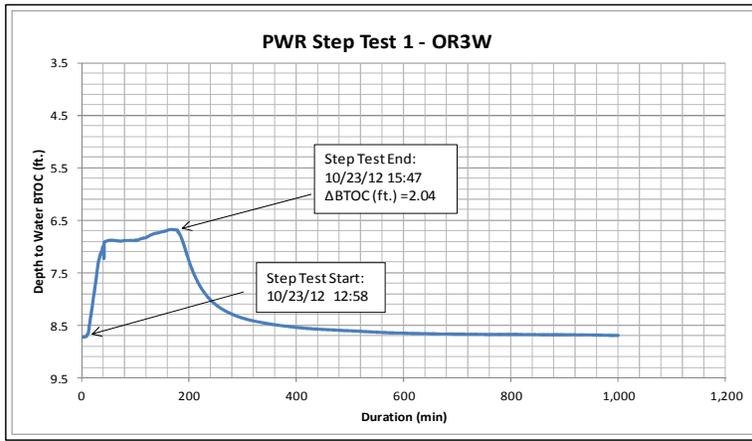
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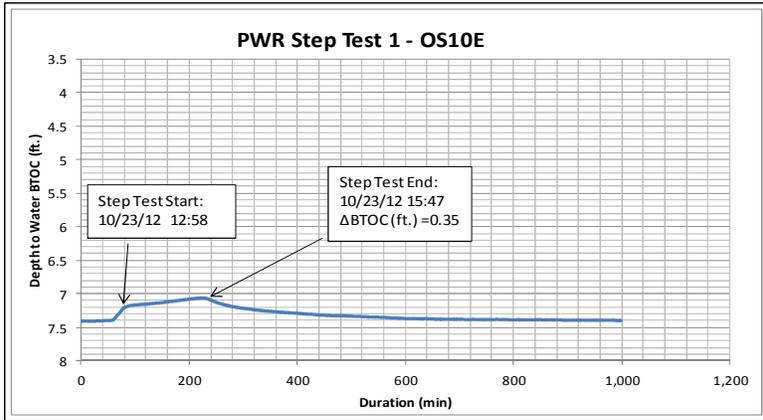
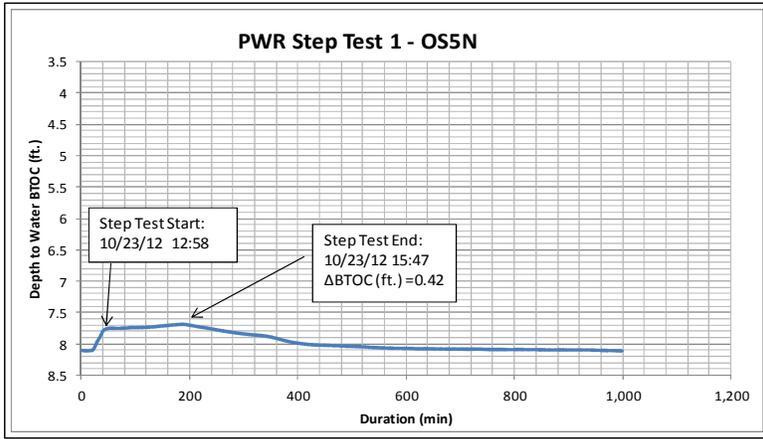
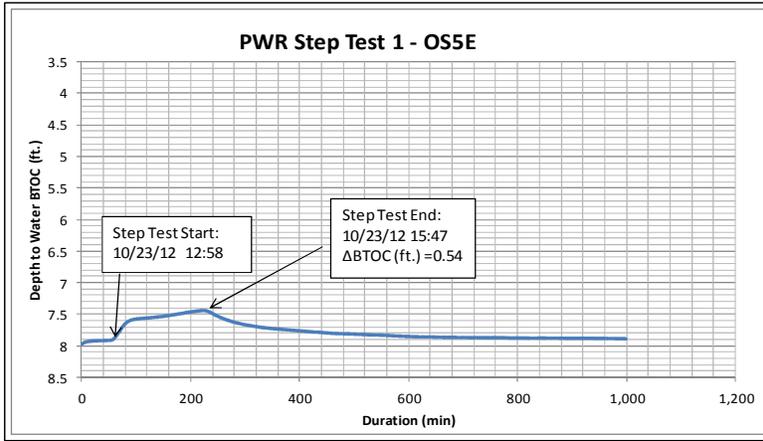
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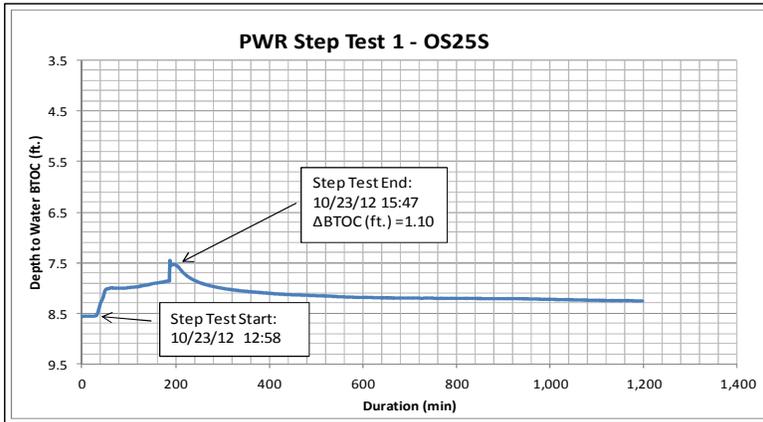
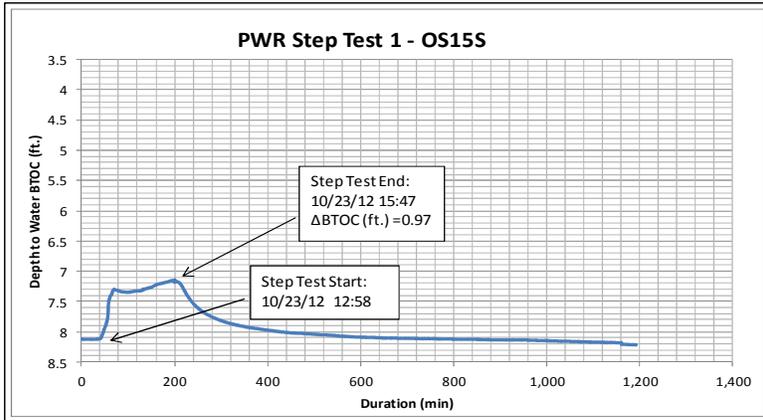
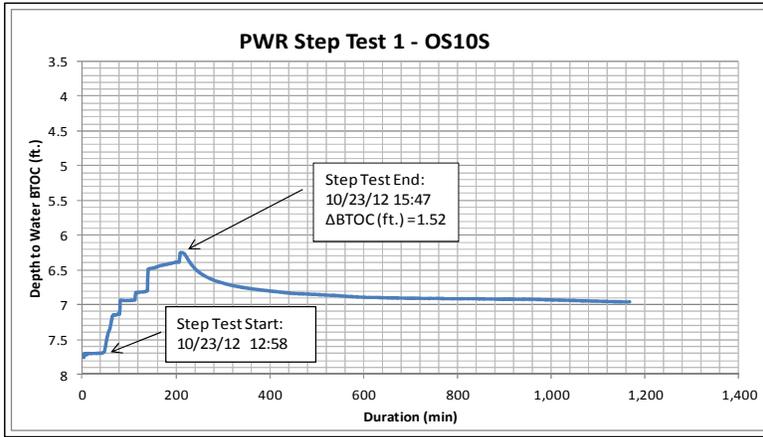
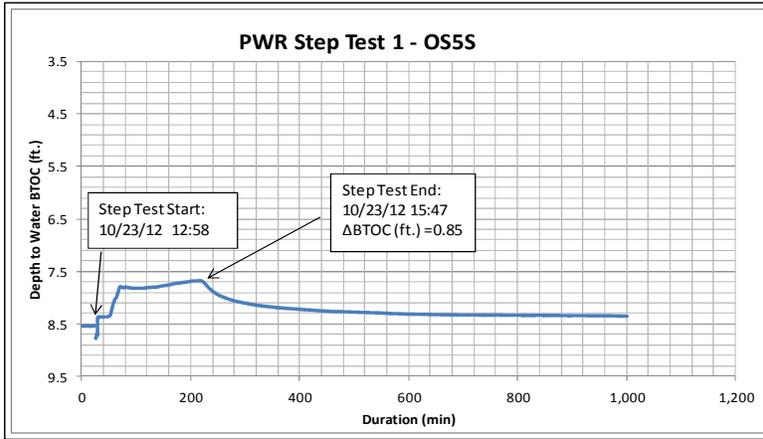
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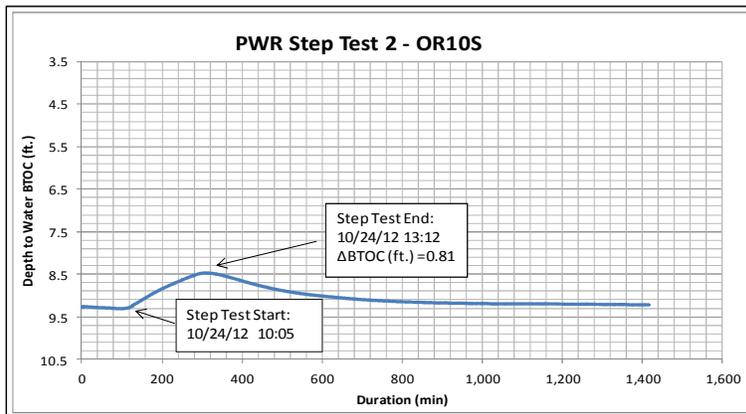
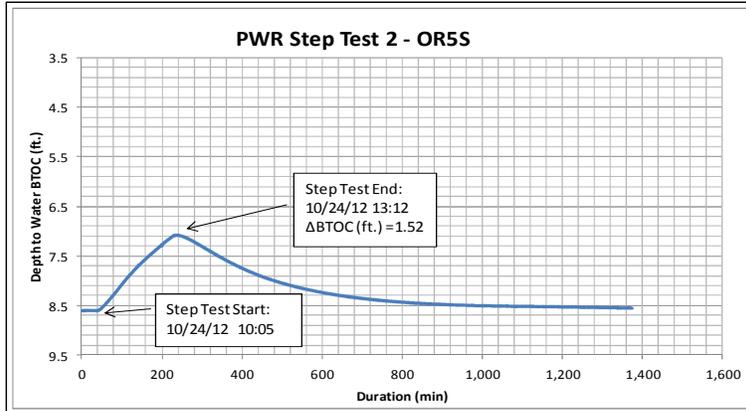
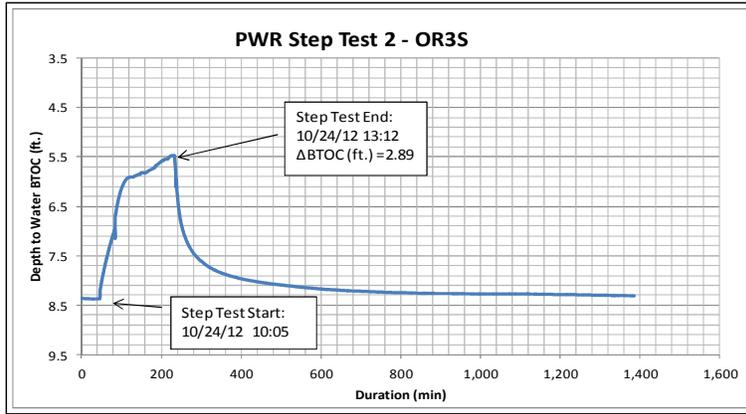
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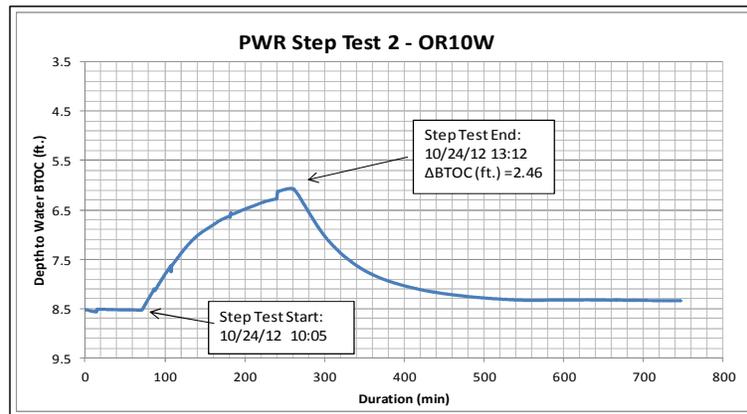
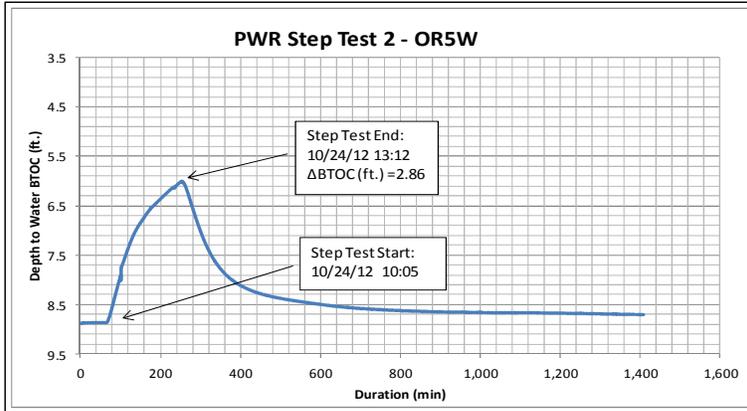
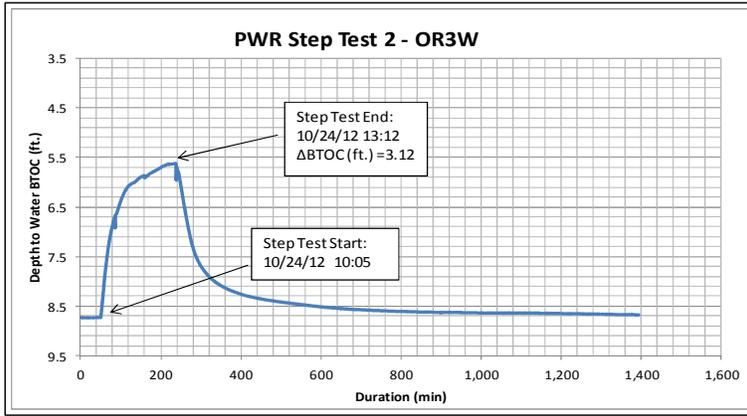
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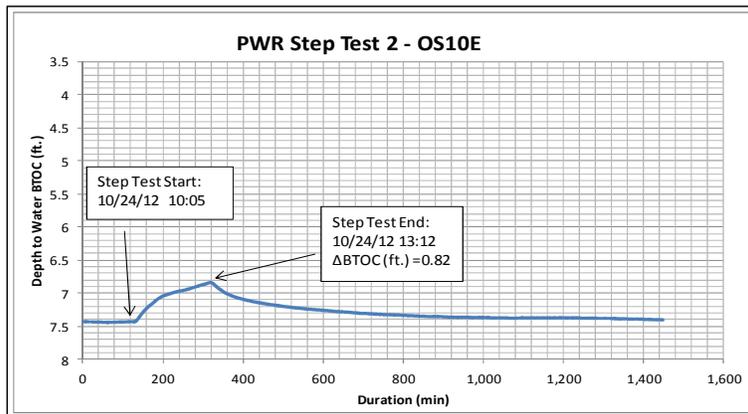
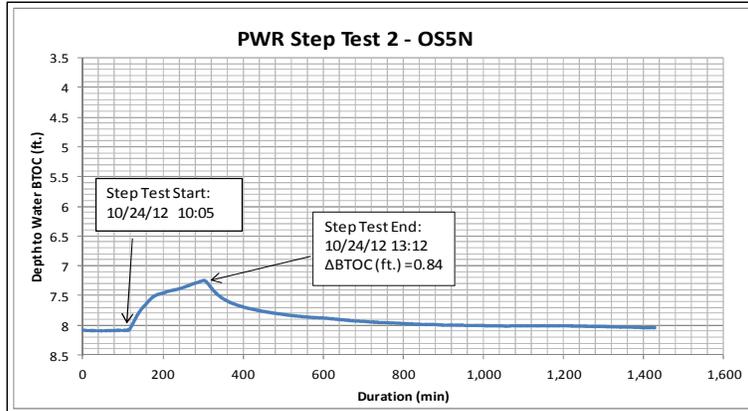
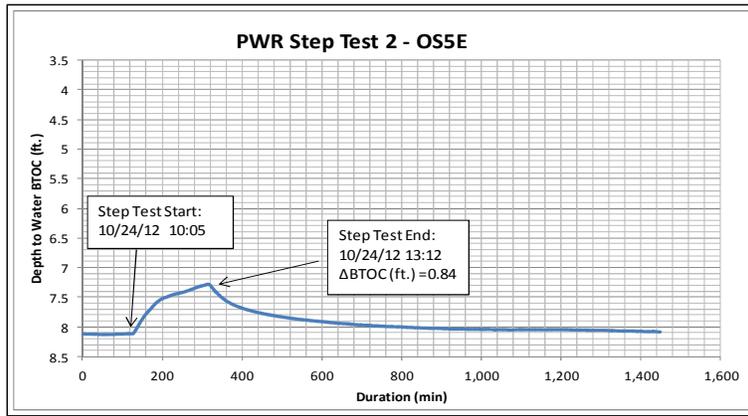
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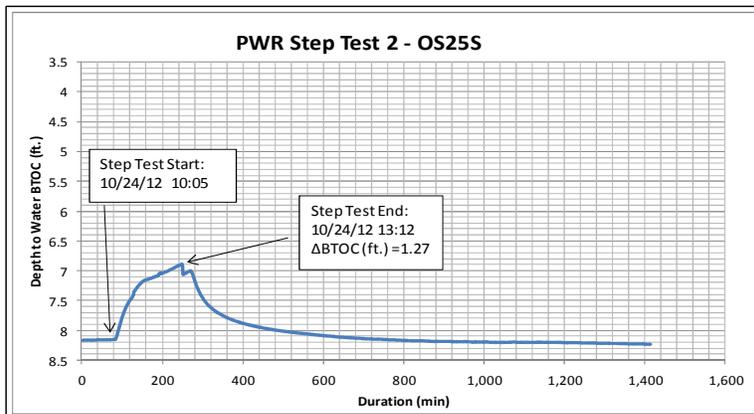
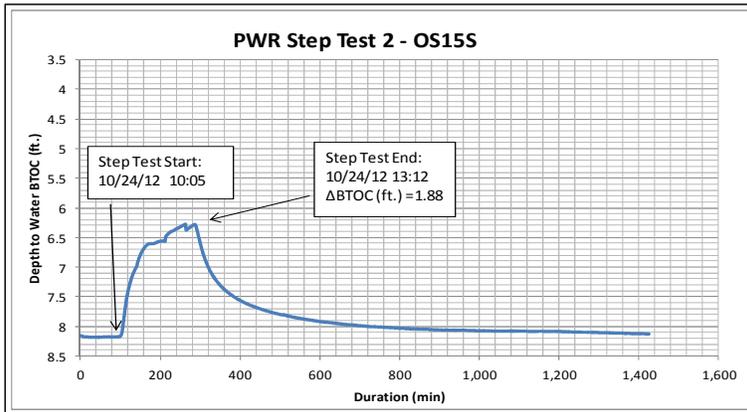
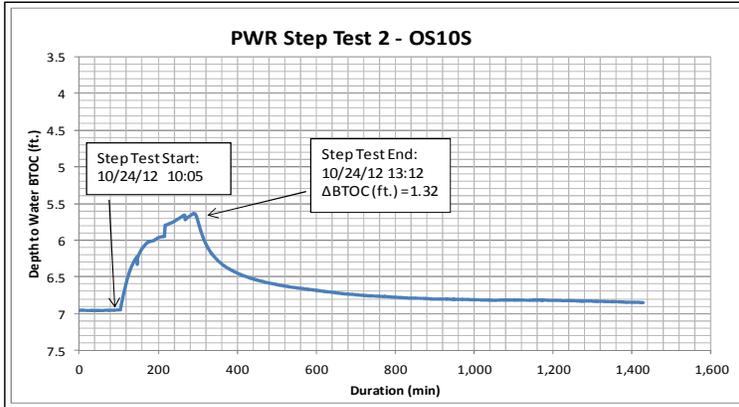
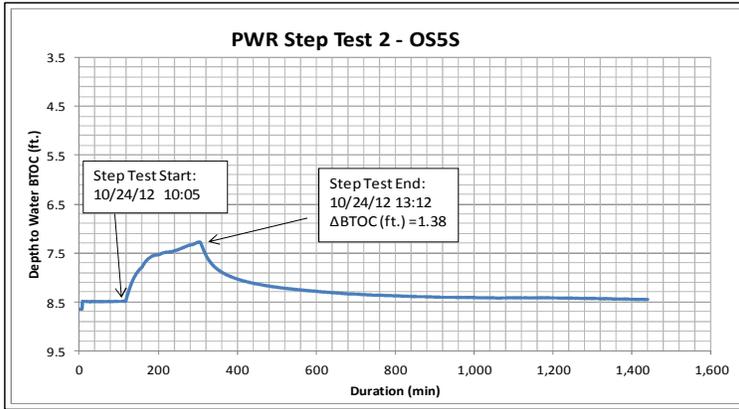
PWR Step Test 2



PWR Step Test 2



PWR Step Test 2



APPENDIX C
SP SURVEY FIELD DATA RECORDS

Self Potential Survey



Name	Angela Adams
Date	9/6/2012
Line	LINE 1
Base Location	BASE A ~ 200' away
Project	Duke Pine St MGP
Project Number	622812
Weather/Temp	cloudy/humid 75°

STRT

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
0824	0	6.3	6.1	48.57			BASE "A"
0829	0 BASE	2.4	-2.7	3.05 mA			BASE "A"
0832	0 Line 1	203.2	-203.6	206.9 kΩ			34° 57' 38.8" / 81° 55' 21.3"
0834	5	199.0	-199.2	202.0			
0835	10	184.0	-183.8	187.5			
0837	15	147.1	-167.9	170.4			
0839	20 25	129.9	-131.6	135.4			
0840	25 35	86.4	-30.5	94.5			
0843	30 45	102.3	-101.9	110.3			
0845	35 55	132.4	-132.9	139.2			34° 57' 38.3" / 81° 55' 21.5"
0847	40 65	139.0	-139.1	145.0			
0850	50 75	149.3	-149.9	156.7			
0851	60 85	163.2	-163.2	168.7			
0853	70 95	+164.7	-164.5	+157.0			rocks surf
0855	80 105	159.8	-160.5	163.3	34° 57' 37.9"	81° 55' 21.8"	rocks surf
0857	90 115	155.1	-156.0	163.8			rocks surf
0859	100 125	154.1	-154.0	158.9			
0901	135	171.4	-172.3	176.3			
0904	145	191.8	-191.5	196.0			
0906	155	197.7	-198.3	202.4			
0907	165	213.8	-214.1	216.4			34° 57' 37.5" / 81° 55' 22"
0909	175	206.5	-206.8	211.2			edge of berm
0910	185	206.6	-206.9	210.3	34° 57' 37.4"	81° 55' 22.3"	on berm
0913	BASE "A"	51.3	-3.9	2.731			edge of berm

Self Potential Survey



Name	Angela Adams
Date	9/6/2012
Line	Line 2
Base Location	Base "A"
Project	Duke Pine St MGP
Project Number	622812
Weather/Temp	cloudy / humid 75°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
0925	BASE "A"	2.9	-3.8	2.677			
0929	0	187.4	-188.2	190.7			34°57'39.0" / 81°55'21.4"
0930	10	177.5	-177.9	180.9			
0932	20	176.3	-177.0	180.0			
0933	30	156.2	-155.1	159.0			
0934	40	62.7	-64.9	54.2			erratic response
0937	50	116.0	26.9	16.79	34°57'38.5"	81°55'21.7"	" "
0939	60	84.4	-64.8	89.1			" "
0942	70	103.1	-103.6	111.4			
0943	80	128.8	-121.5	121.7			
0945	90	131.2	-132.1	136.8			
0947	100	144.2	-144.4	148.1	34°57'38.0"	81°55'21.9"	rocks surf
0948	110	143.7	-144.3	150.2			" "
0950	120	142.7	-144.0	152.9			" "
0951	130	155.4	-154.6	166.0			" "
0953	140	159.2	-160.6	170.6			
0955	150	183.1	-183.7	199.9			34°57'37.7" / 81°55'22.1"
0959	160	183.8	-184.5	191.8			
1000	170	175.7	-175.8	181.4			
1002	180	200.7	-200.4	203.0			under pwr lines
1004	190	208.3	-208.0	210.5	34°57'37.4"	81°55'22.4"	near pwr lines
1006	BASE "A"	4.3	-2.9	2.614			

Self Potential Survey



Name	Angela Adams
Date	9/6/2012
Line	LINE 3
Base Location	BASE "A"
Project	Duke Pine Street MEP
Project Number	622812
Weather/Temp	cloudy / humid 79°

1652

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1025	BASE "A"	1.5	-2.3	2.480			
1027	0	228.1	-228.4	230.4			34° 57' 39.1" / 81° 55' 21.5"
1029	10	208.9	-209.0	211.3			
1030	20	196.0	-196.3	198.5			
1031	30	175.0	-174.5	178.1			
1033	40	166.9	-167.4	170.5			
1034	50	143.8	-143.9	148.8			34° 57' 38.7" / 81° 55' 21.8"
1035	60	92.6	-81.9	98.9			
1037	70	102.5	34.1	16.95			erratic response
1039	80	93.0	-17.0	78.1			" " on neg only
1041	90	83.3	-79.5	88.9			
1043	100	101.0	-101.4	105.2			34° 57' 38.2" / 81° 55' 22.0"
1046	110	121.0	-121.6	129.6			rocks near surf
1047	120	127.6	-127.9	141.7			" "
1048	130	140.5	-140.8	143.9			" "
1050	140	160.2	-160.2	166.7			
1052	150	183.6	-184.2	195.5			34° 57' 37.8" / 81° 55' 22.3"
1053	160	192.4	-192.7	217.8			
1055	170	190.4	-190.8	226.3			
1056	180	193.9	-194.1	198.9			
1058	190	186.4	-186.2	190.2			
1100	200	212.4	-212.7	213.9	34° 57' 37.3"	81° 55' 22.6"	near park line / p+4
1102	BASE "A"	2.4	-0.8	2.456			

Self Potential Survey



Name	Angela Adams
Date	9/6/2012
Line	LINE 4
Base Location	BASE "A"
Project	Duke Pine St. MGP
Project Number	622812
Weather/Temp	Partly sunny / humid 81°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1113	BASE "A"	251.8 0.0	-0.6	2.406			
1119	0	251.8	-252.7	254.9			34°57'39.3"/81°55'21.7"
1120	10	232.4	-231.7	235.3			
1122	20	214.1	-214.7	210.1			
1123	30	187.6	-187.6	189.8			
1125	40	179.7	-180.3	183.8			
1126	50	162.2	-162.1	165.1			34°57'38.9"/81°55'21.9"
1128	60	153.8	-155.1	159.2			
1129	70	117.2	-116.6	127.4			
1131	80	35.7	-37.8	8.43			erratic
1133	90	56.1	-20.9	55.7			
1135	100	57.9	-40.1	67.1	34°57'38.4"	81°55'22.2"	erratic for reversed
1136	110	86.7	-71.3	14.40			
1138	120	107.3	-106.3	112.4			
1140	130	131.0	-132.1	140.9			rocks @ surf
1142	140	164.5	-164.9	171.1			" "
1143	150	243.2	-241.8	249.0	34°57'38"	81°55'22.5"	" "
1145	160	210.0	-210.8	233.8			
1147	170	196.4	-196.1	211.0			
1148	180	204.8	-204.8	221.7			
1151	190	205.4	-206.1	212.0			
1153	200	202.5	-202.9	206.0			34°57'37.5"/81°55'22.6"
1154	210	193.1	-193.0	199.2			34°57'37.3"/81°55'22.7"
1157	BASE "A"	-0.8	0.9	2.435			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/6/2012
Line	LINE 5
Base Location	BASE "A"
Project	DUKE PINE STREET M&P
Project Number	622812
Weather/Temp	Partly cloudy/humid 82°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1324	BASE "A"	-4.9	3.2	2.177			N 34° 57' 38.5" / W 81° 55' 23.7"
1327	0	185.7	-186.4	192.1			34° 57' 39.1" / 81° 55' 22"
1330	10	180.4	-177.7	180.3			
1331	20	167.2	-167.8	169.7			
1332	30	149.6	-151.8	155.0			
1334	40	128.9	-129.4	132.9			
1335	50	106.6	-106.5	111.0			34° 57' 38.5" / 81° 55' 22"
1337	60	91.8	-93.7	94.7			
1338	70	74.2	-75.6	78.5			
1340	80	57.5	-50.2	8.94			
1341	90	85.5	-84.4	88.4			
1343	100	112.9	-113.3	116.0			34° 57' 38.0" / 81° 55' 22.2"
1345	110	143.4	-145.1	146.8			
1347	120	163.7	-164.0	167.1			
1349	130	187.6	-187.9	197.5			
1350	140	195.9	-195.7	204.5			
1352	150	212.4	-212.9	219.4			34° 57' 37.6" / 81° 55' 22.5"
1354	160	214.3	-214.2	219.3			
1356	170	198.0	-188.2	192.9			
1357	180	188.1	-187.1	197.0			near MW-13
1359	190	208.1	-209.0	212.6			" "
1401	200	253.4	-253.8	254.6			34° 57' 37.2" / 81° 55' 22.8"
1404	BASE "A"	-0.1	1.3	2.325			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/6/2012
Line	LINE 6
Base Location	BASE "A"
Project	DUKE PINE ST MGP
Project Number	622812
Weather/Temp	Partly Sunny/humid 82°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1415	BASE "A"	-0.4	1.6	2.258			
1418	0	197.7	-197.9	200.0			34° 57' 39.5" / 81° 55' 22.4"
1420	10	193.9	-194.6	196.7			
1422	20	178.3	-178.6	181.0			
1423	30	166.0	-166.2	169.2			
1424	40	155.5	-155.3	157.7			
1426	50	137.2	-139.4	141.8			34° 57' 38.6" / 81° 55' 22.2"
1427	60	108.6	-111.8	110.2			near MW-17
1429	70	109.7	-109.0	115.0			
1430	80	93.9	-94.8	98.5			
1432	90	82.8	-83.6	87.1			
1433	100	98.8	-99.4	13.78			34° 57' 38.2" / 81° 55' 22.5"
1435	110	123.1	-123.4	126.6			
1437	120	144.2	-144.3	149.4			
1438	130	165.0	-165.8	168.1			
1440	140	194.6	-194.7	199.2			
1441	150	234.3	-234.0	239.7			34° 57' 37.8" / 81° 55' 22.9"
1443	160	265.6	-265.6	269.0			
1445	170	240.1	-241.1	244.3			
1446	180	196.4	-195.9	201.8			
1448	190	212.1	-212.9	227.4			
1450	200	253.9	-253.1	260.4			34° 57' 37.2" / 81° 55' 23.0"
1452	BASE "A"	-0.5	1.5	2.241			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/6/2012
Line	LINE 7
Base Location	BASE "A"
Project	DUKE PINE ST MGP
Project Number	62282
Weather/Temp	Partly Sunny/humid 80°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1611	BASE "A"	-2.8	1.9	2.206			
1614	0	215.9	-216.4	219.6			34°57' 39.2" / 81°55' 22.5"
1616	10	186.2	-185.7	188.8			
1617	20	168.5	-168.4	170.4			
1619	30	159.0	-159.2	161.5			
1620	40	147.2	-147.4	150.2			
1622	50	120.5	-119.9	123.8			34°57' 38.5" / 81°55' 21.8"
1623	60	101.9	-106.3	107.0			
1624	70	83.9	-63.6	84.3			junction w/ Line 4
1627	80	109.4	4.8	6.024			junction w/ Line 4 erratic
1629	90	125.0	21.0	4.770			junction w/ Line 3
1631	100	91.6	-66.5	13.75			34°57' 38.2" / 81°55' 21.8"
1633	110	114.4	-114.0	121.9			junction Line 2
1635	120	129.1	-129.2	137.8			
1636	130	151.6	-152.2	156.6			near MW-12
1638	140	156.5	-156.7	160.3			rocks surf @ 150 too
1640	150	170.3	-171.8	175.5			34°57' 38.0" / 81°55' 21.6"
1642	160	176.0	-176.8	181.8			rocks surf
1644	170	168.5	-168.3	174.8			
1646	180	180.3	-181.3	193.6			34°57' 37.6" / 81°55' 21.4"
1649	BASE "A"	-3.0	2.2	2.220			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/7/2012
Line	LINE 8
Base Location	BASE "A"
Project	DUKE PINE ST MGP
Project Number	622812
Weather/Temp	Cloudy / 72°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
0724	BASE "A"	4.7	-5.0	2,434			
0729	0	183.0	-183.5	185.4			34°57'39.1" / 81°55'25.1"
0732	10	171.1	-170.9	175.5			
0733	20	165.4	-166.9	169.6			
0734	30	150.1	-149.7	153.6			
0736	40	131.9	-131.9	139.0			
0737	50	77.7	-93.2	94.3			34°57'39.6" / 81°55'23.0"
0740	60	113.7	-114.5	123.6			
0741	70	83.0	-86.5	85.6			
0743	80	75.7	-76.6	80.8			
0744	90	94.6	-95.7	98.7			
0746	100	114.2	-116.0	119.1			34°57'38.2" / 81°55'22.1"
0748	110	127.3	-127.4	149.0			rock @ surf
0751	120	126.5	-126.9	139.5			" "
0753	130	134.2	-135.0	137.4			" "
0754	140	142.8	-142.7	155.9			" "
0756	150	137.0	-137.6	145.6			34°57'37.7" / 81°55'21.9"
0758	160	144.8	-145.3	148.0			
0759	170	156.2	-155.9	160.2			
0801	180	180.7	-180.8	185.0			34°57'37.4" / 81°55'22.0"
0803	BASE "A"	6.0	-6.5	2,576			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/7/2012
Line	LINE 9
Base Location	BASE "A"
Project	DUCE PINE ST MGP
Project Number	622812
Weather/Temp	cloudy/humid 72°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
0815	BASE "A"	5.8	-6.0	2.588			
0817	0	346.0	-346.6	350.8			34° 57' 38.9" / 81° 55' 23.5"
0819	10	141.2	-141.1	144.8			
0821	20	104.0	-104.1	109.7			
0824	30	76.1	-73.1	89.8			
0825	40	48.3	-46.3	13.57			erratic
0827	50	50.2	-49.7	58.7			34° 57' 38.4" / 81° 55' 23.0"
0830	60	63.1	-62.6	70.3			
0831	70	88.9	-95.4	100.9			
0832	80	113.5	-114.8	117.4			
0834	90	142.5	-146.6	145.1			
0836	100	150.0	-150.7	153.8			34° 57' 38.0" / 81° 55' 22.6"
0838	110	176.5	-177.0	180.4			rocks esurb
0840	120	228.4	-229.2	235.2			" "
0842	130	241.6	-242.0	252.3			" "
0844	140	189.5	-189.8	202.6			" "
0845	150	172.4	-172.4	212.0			34° 57' 37.6" / 81° 55' 22.3"
0847	160	173.3	-173.9	204.4			
0849	170	194.4	-194.8	203.3			
0850	180	183.9	-184.7	191.7			34° 57' 37.5" / 81° 55' 21.9"
0854	BASE "A"	7.9	-8.3	2.830			

Self Potential Survey



Name	ANGELA ADAMS
Date	9/7/2010
Line	LINE 12
Base Location	BASE "A"
Project	DUKE PINE STREET MCP
Project Number	622812
Weather/Temp	Partly Sunny / 75°

Time	Distance from Line Base (ft)	Normal Voltage (mV)	Reversed Voltage (mV)	Resistance (ohms)	Base Drift (mV)	Drift Correction	Notes
1045	BASE "A"	5.1	-5.7	2,698			
1047	0	632.1	-632.5	0.677 MΩ			34° 57' 38.8" / 81° 55' 24.2"
1050	10	423.9	-423.7	426.2			
1051	20	87.4	-85.7	93.5			near base
1053	30	35.3	-34.8	11.95			" "
1054	40	-27.5	27.7	6.136			erratic on Ω
1056	50	-6.1	8.2	9.77			34° 57' 38.4" / 81° 55' 23.7"
1058	60	132.8	-133.3	143.6			
1059	70	167.7	-167.3	171.1			
1101	80	196.5	-197.0	202.8			
1103	90	220.5	-219.4	225.7			
1105	100	246.0	-246.5	250.3			34° 57' 37.8" / 81° 55' 23.6"
1107	110	266.8	-266.7	270.7			
1108	120	259.4	-259.7	263.8			
1110	130	243.2	-242.2	247.3			
1112	140	198.5	-199.6	207.0			
1113	150	205.3	-204.2	210.0			34° 57' 37.2" / 81° 55' 23.1"
1116	160	213.8	-214.5	221.3			
1117	170	211.0	-210.9	212.7			34° 57' 37.2" / 81° 55' 22.7"
1120	BASE "A"	8.7	-7.7	3,112			

MW-13

APPENDIX D

SHALLOW ZONE GEOCHEMICAL MONITORING SUMMARY DURING INJECTION

Appendix D. Shallow Zone Geochemical Monitoring Summary During Injection

Well Number	Week	Date	Time	Specific Conductivity (µS/cm)	ORP (mV)	pH	DO (mg/L)	Temperature °C
OS-5N	1	12/4/2012	11:30	0.554	-13.50	6.40	12.70	18.10
		12/5/2012	9:30	0.928	58.40	5.79	4.49	17.30
		12/6/2012	9:00	3.770	185.00	6.15	2.74	17.90
	2	12/10/2012	13:05	4.228	172.30	6.17	2.29	20.77
		12/11/2012	8:50	3.776	217.00	6.17	4.08	20.50
		12/12/2012	8:55	2.938	275.00	5.80	4.70	31.74
		12/13/2012	8:20	1.246	5.15	5.80	5.20	21.16
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	1799.000	N/M	5.89	N/M	21.18
		12/18/2012	8:10	62.140	145.00	8.00	1.20	25.44
		12/18/2012	14:35	2.181	136.00	5.61	14.20	18.80
		12/19/2012	7:40	2.280	235.00	5.72	6.94	23.13
		12/20/2012	7:00	68.930	213.50	8.47	1.62	26.34
	4	1/7/2013	11:30	0.354	154.80	7.65	4.62	17.78
		1/8/2013	7:10	1.380	274.40	6.48	1.36	22.20
		1/9/2013	7:30	77.560	292.20	8.74	0.61	24.67
1/10/2013		7:30	90.910	380.40	7.94	2.30	24.68	
OS-5E	1	12/4/2012	N/M	N/M	N/M	N/M	N/M	N/M
		12/5/2012	N/M	N/M	N/M	N/M	N/M	N/M
		12/6/2012	N/M	N/M	N/M	N/M	N/M	N/M
	2	12/10/2012	13:05	109.000	210.00	13.45	1.59	24.46
		12/11/2012	8:50	32.850	106.00	12.05	4.92	23.12
		12/12/2012	8:55	43.560	180.00	12.80	6.40	23.51
		12/13/2012	8:20	89.200	254.00	13.05	6.08	24.83
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	Out of range	N/M	12.62	N/M	21.80
		12/18/2012	8:10	76.190	64.70	12.90	13.60	25.90
		12/18/2012	14:35	31.100	109.00	12.59	19.60	20.76
		12/19/2012	7:40	65.140	165.00	12.79	28.30	24.96
		12/20/2012	7:00	100.600	204.90	13.10	16.40	26.50
	4	1/7/2013	11:30	8.630	279.40	8.77	26.83	19.71
		1/8/2013	7:10	9.892	209.60	9.02	23.79	19.39
		1/9/2013	7:30	17.340	266.20	10.20	27.88	21.50
1/10/2013		7:30	25.760	303.80	12.06	26.12	22.30	
OS-10E	1	12/4/2012	11:30	0.360	-40.00	6.30	13.70	18.00
		12/5/2012	9:30	0.407	-33.30	6.38	4.35	17.50
		12/6/2012	9:00	0.396	-23.50	6.71	1.57	17.70
	2	12/10/2012	13:05	0.456	-43.90	9.42	2.27	18.71
		12/11/2012	8:50	0.473	-42.10	9.70	3.59	18.69
		12/12/2012	8:55	0.533	41.50	9.58	3.66	18.87
		12/13/2012	8:20	0.573	309.00	9.19	5.50	19.11
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	1401.000	N/M	9.47	N/M	18.80
		12/18/2012	8:10	0.490	120.00	12.40	0.31	21.17
		12/18/2012	14:35	0.625	167.00	8.50	1.40	19.16
		12/19/2012	7:40	0.786	179.00	7.65	1.61	19.59
		12/20/2012	7:00	5.720	225.60	7.68	1.89	20.07
	4	1/7/2013	11:30	0.518	311.70	7.12	1.47	17.59
		1/8/2013	7:10	0.543	173.70	7.53	2.04	17.30
		1/9/2013	7:30	4.304	338.40	8.04	1.62	19.42
1/10/2013		7:30	2.345	391.10	8.38	1.71	19.12	

Appendix D. Shallow Zone Geochemical Monitoring Summary During Injection

Well Number	Week	Date	Time	Specific Conductivity (µS/cm)	ORP (mV)	pH	DO (mg/L)	Temperature °C	
OS-5S	1	12/4/2012	N/M	N/M	N/M	N/M	N/M	N/M	
		12/5/2012	9:30	0.549	34.80	6.51	3.70	18.10	
		12/6/2012	9:00	0.639	67.30	6.60	0.70	18.80	
	2	12/10/2012	13:05	3.278	68.80	8.96	8.05	24.22	
		12/11/2012	8:50	6.457	112.30	8.52	8.49	24.24	
		12/12/2012	8:55	20.970	143.90	10.03	8.78	25.66	
		12/13/2012	8:20	32.560	229.00	10.25	8.84	25.63	
		12/14/2012	Instrument Failure						
	3	12/17/2012	13:40	Out of range	N/M	8.12	N/M	24.00	
		12/18/2012	8:10	63.300	176.80	12.11	17.72	29.31	
		12/18/2012	14:35	45.720	218.00	9.71	23.06	24.37	
		12/19/2012	7:40	53.620	279.00	10.19	21.07	28.00	
	4	12/20/2012	7:00	67.300	253.80	12.17	12.40	28.20	
		1/7/2013	11:30	34.020	389.10	6.58	7.02	24.42	
		1/8/2013	7:10	39.520	353.40	6.76	7.36	23.45	
		1/9/2013	7:30	158.000	377.80	13.83	8.04	25.21	
1/10/2013		7:30	19.540	373.90	13.76	7.63	23.49		
OS-10S	1	12/4/2012	11:30	0.357	-7.00	6.51	5.90	18.00	
		12/5/2012	9:30	0.402	15.20	6.51	3.48	17.80	
		12/6/2012	9:00	0.392	24.90	6.53	0.70	19.70	
	2	12/10/2012	13:05	0.483	111.40	8.26	6.22	21.80	
		12/11/2012	8:50	0.474	111.20	8.20	8.47	21.57	
		12/12/2012	8:55	0.465	161.00	8.76	9.34	22.87	
		12/13/2012	8:20	0.482	240.00	7.06	9.30	23.50	
		12/14/2012	Instrument Failure						
	3	12/17/2012	13:40	0.442	N/M	6.56	N/M	22.40	
		12/18/2012	8:10	133.000	182.00	13.00	23.20	26.40	
		12/18/2012	14:35	0.907	84.40	6.90	32.94	22.16	
		12/19/2012	7:40	434.020	160.00	12.90	24.48	26.02	
	4	12/20/2012	7:00	142.800	240.20	13.23	10.95	27.80	
		1/7/2013	11:30	2.584	281.90	6.28	11.27	21.65	
		1/8/2013	7:10	2.347	210.10	6.56	13.10	20.90	
		1/9/2013	7:30	104.400	178.40	13.55	12.94	24.12	
1/10/2013		7:30	177.600	264.70	13.87	6.15	24.55		

Appendix D. Shallow Zone Geochemical Monitoring Summary During Injection

Well Number	Week	Date	Time	Specific Conductivity (µS/cm)	ORP (mV)	pH	DO (mg/L)	Temperature °C
OS-15S	1	12/4/2012	11:30	N/M	N/M	N/M	N/M	N/M
		12/5/2012	9:30	N/M	N/M	N/M	N/M	N/M
		12/6/2012	9:00	N/M	N/M	N/M	N/M	N/M
	2	12/10/2012	13:05	0.402	55.00	7.97	2.24	19.24
		12/11/2012	8:50	0.405	59.60	7.79	3.06	19.00
		12/12/2012	8:55	0.426	87.40	7.98	3.17	19.77
		12/13/2012	8:20	0.428	182.00	6.66	4.01	20.17
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.384	N/M	6.42	N/M	19.20
		12/18/2012	8:10	0.356	-10.20	6.48	0.04	21.10
		12/18/2012	14:35	0.416	-10.10	6.38	0.49	20.30
		12/19/2012	7:40	0.440	-38.60	7.80	1.19	20.90
	4	12/20/2012	7:00	0.384	95.60	7.72	0.51	21.43
		1/7/2013	11:30	0.361	90.70	7.05	1.03	19.72
1/8/2013		7:10	0.357	48.10	7.31	1.46	19.48	
1/9/2013		7:30	1.270	-59.10	7.87	0.75	21.33	
		1/10/2013	7:30	0.685	-52.20	8.19	0.69	20.97
OS-20S	1	12/4/2012	11:30	N/M	N/M	N/M	N/M	N/M
		12/5/2012	9:30	N/M	N/M	N/M	N/M	N/M
		12/6/2012	9:00	N/M	N/M	N/M	N/M	N/M
	2	12/10/2012	13:05	0.519	9.10	7.34	2.00	17.90
		12/11/2012	8:50	0.674	-9.50	7.34	2.89	17.35
		12/12/2012	8:55	0.833	0.10	7.58	3.20	17.82
		12/13/2012	8:20	0.585	18.60	7.58	3.95	18.19
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.450	N/M	6.29	N/M	18.20
		12/18/2012	8:10	0.522	-45.80	6.72	0.38	18.49
		12/18/2012	14:35	1.033	3.60	6.16	0.57	18.17
		12/19/2012	7:40	89.260	194.00	11.03	0.35	20.67
	4	12/20/2012	7:00	115.700	164.50	13.13	0.36	20.50
		1/7/2013	11:30	0.387	76.20	6.91	3.55	17.53
1/8/2013		7:10	0.451	17.40	7.32	2.05	17.37	
1/9/2013		7:30	50.730	186.10	11.18	0.75	19.59	
		1/10/2013	7:30	49.150	83.50	11.24	0.70	19.75
OS-25S	1	12/4/2012	11:30	0.330	-48.90	6.27	7.30	17.70
		12/5/2012	9:30	0.336	-37.70	6.39	5.04	17.30
		12/6/2012	9:00	0.343	-45.00	6.41	1.20	16.90
	2	12/10/2012	13:05	0.389	-9.00	7.04	1.98	17.50
		12/11/2012	8:50	0.530	-29.80	7.11	2.74	17.36
		12/12/2012	8:55	0.497	-9.70	7.08	3.10	17.25
		12/13/2012	8:20	0.557	-22.30	7.52	3.69	17.49
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.679	N/M	6.33	N/M	17.00
		12/18/2012	8:10	0.617	-32.80	6.17	0.76	17.40
		12/18/2012	14:35	2.235	104.80	6.25	1.11	17.76
		12/19/2012	7:40	67.510	197.00	9.98	0.34	18.53
	4	12/20/2012	7:00	71.930	212.30	10.40	0.73	18.59
		1/7/2013	11:30	0.430	-18.70	7.01	1.69	16.64
1/8/2013		7:10	0.521	-29.70	7.30	1.74	16.50	
1/9/2013		7:30	47.130	239.80	10.04	0.96	18.26	
		1/10/2013	7:30	40.840	133.50	9.89	0.85	18.20

Appendix D. Shallow Zone Geochemical Monitoring Summary During Injection

Well Number	Week	Date	Time	Specific Conductivity (µS/cm)	ORP (mV)	pH	DO (mg/L)	Temperature °C
OR-10W	1	12/4/2012	11:30	0.401	-4.30	6.58	8.15	18.20
		12/5/2012	9:30	0.406	-14.60	6.67	6.20	17.80
		12/6/2012	9:00	0.399	-13.60	6.73	1.69	17.90
	2	12/10/2012	13:05	0.453	3.90	7.08	2.64	17.90
		12/11/2012	8:50	0.453	-10.00	7.10	3.40	19.92
		12/12/2012	8:55	0.454	-0.50	7.14	3.80	17.76
		12/13/2012	8:20	0.456	16.50	7.68	4.43	17.84
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.445	N/M	7.50	N/M	17.50
		12/18/2012	8:10	0.384	134.00	6.75	4.90	17.30
		12/18/2012	14:35	0.393	113.00	7.50	5.70	17.75
		12/19/2012	7:40	0.531	-33.80	6.68	0.53	18.14
	4	12/20/2012	7:00	0.397	15.90	7.25	14.30	16.92
		1/7/2013	11:30	1.145	258.60	6.14	4.68	22.59
		1/8/2013	7:10	0.400	156.20	8.02	4.85	16.83
		1/9/2013	7:30	0.367	242.60	7.89	4.41	17.87
1/10/2013		7:30	0.456	287.30	8.81	4.67	16.38	
Chinquapin Creek (South of Pilot Area)	1	12/4/2012	11:30	0.352	217.00	6.38	26.60	13.30
		12/5/2012	9:30	0.172	59.20	5.96	11.30	13.50
		12/6/2012	9:00	0.167	89.20	6.49	7.05	12.90
	2	12/10/2012	13:05	0.154	111.70	6.50	4.58	14.94
		12/11/2012	8:50	0.134	114.60	7.90	6.80	13.50
		12/12/2012	8:55	0.161	127.00	7.40	6.54	11.20
		12/13/2012	8:20	0.150	527.00	7.06	11.70	9.76
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.990	N/M	6.82	N/M	13.30
		12/18/2012	8:10	0.077	230.00	7.80	10.24	12.30
		12/19/2012	7:40	0.118	74.50	6.75	10.60	9.35
		12/20/2012	7:00	0.127	66.00	7.94	10.90	9.86
	4	1/7/2013	7:30	0.107	131.10	7.29	11.93	9.69
		1/8/2013	7:10	0.108	70.80	7.04	12.53	6.71
		1/9/2013	7:40	0.092	33.61	8.11	11.67	9.33
		1/10/2013	7:10	0.218	193.90	7.75	10.30	10.44
Chinquapin Creek (Upstream at Bridge)	1	12/4/2012	11:30	0.161	293.00	5.12	23.70	13.10
		12/5/2012	9:30	0.158	144.70	5.51	10.60	13.20
		12/6/2012	9:00	0.157	130.00	6.20	5.80	12.46
	2	12/10/2012	13:05	0.148	114.90	6.63	4.36	14.88
		12/11/2012	8:50	0.137	146.00	7.50	6.10	13.57
		12/12/2012	8:55	0.158	166.00	7.20	6.20	11.16
		12/13/2012	8:20	0.147	515.00	7.08	9.10	9.86
		12/14/2012	Instrument Failure					
	3	12/17/2012	13:40	0.980	N/M	6.56	N/M	13.30
		12/18/2012	8:10	0.990	166.30	7.67	10.02	12.36
		12/19/2012	7:40	0.119	76.20	6.49	11.90	9.32
		12/20/2012	7:00	0.125	74.40	7.65	11.50	9.89
	4	1/7/2013	7:30	0.085	136.00	7.32	11.90	9.58
		1/8/2013	7:10	0.092	101.70	7.28	13.11	6.52
		1/9/2013	7:40	0.092	305.70	7.70	11.95	9.36
		1/10/2013	7:10	0.110	287.80	7.49	11.37	10.44

Notes:

N/M - not measured
 µS/cm - micro Siemens per centimeter
 mV - millivolts
 mg/L = milligrams per liter

Prepared By/Date: MJP 11/5/13

Checked By/Date:

APPENDIX E

SHALLOW ZONE OBSERVATION WELLS MONITORING LABORATORY REPORTS



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J12100210

Customer Name(s): AMEC

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)

Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou,
email=jay.perkins@duke-
energy.com, c=US
Date: 2012.10.22 14:41:50 -04'00'

Date: 10/22/2012

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2012021640	SPARTANBURG	05-Oct-12 10:35 AM	AMEC	Pine St. 4908572 MW-OS 20S
2012021641	SPARTANBURG	05-Oct-12 10:00 AM	AMEC	Pine St. 4908572 TRIP BLANK-4
2012021642	SPARTANBURG	05-Oct-12 11:20 AM	AMEC	Pine St. 4908572 MW-OS 25S
2012021643	SPARTANBURG	05-Oct-12 12:15 PM	AMEC	Pine St. 4908572 MW-OS 10S
2012021644	SPARTANBURG	05-Oct-12 1:05 PM	AMEC	Pine St. 4908572 MW-OS 5S
2012021645	SPARTANBURG	05-Oct-12 1:55 PM	AMEC	Pine St. 4908572 MW-OS 5E
2012021646	SPARTANBURG	05-Oct-12 2:40 PM	AMEC	Pine St. 4908572 MW-OS 10E
2012021647	SPARTANBURG	05-Oct-12 3:30 PM	AMEC	Pine St. 4908572 MW-OS 5N

8 Total Samples

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 10/22/2012

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12100210

Site: Pine St. 4908572 MW-OS 20S

Collection Date: 05-Oct-12 10:35 AM

Sample #: 2012021640

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 TRIP BLANK-4

Collection Date: 05-Oct-12 10:00 AM

Sample #: 2012021641

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 MW-OS 25S

Collection Date: 05-Oct-12 11:20 AM

Sample #: 2012021642

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

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Order # J12100210

Site: Pine St. 4908572 MW-OS 10S

Collection Date: 05-Oct-12 12:15 PM

Sample #: 2012021643

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 MW-OS 5S

Collection Date: 05-Oct-12 1:05 PM

Sample #: 2012021644

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 MW-OS 5E

Collection Date: 05-Oct-12 1:55 PM

Sample #: 2012021645

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12100210

Site: Pine St. 4908572 MW-OS 5E

Collection Date: 05-Oct-12 1:55 PM

Sample #: 2012021645

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 MW-OS 10E

Collection Date: 05-Oct-12 2:40 PM

Sample #: 2012021646

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: Pine St. 4908572 MW-OS 5N

Collection Date: 05-Oct-12 3:30 PM

Sample #: 2012021647

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12100210

Site: Pine St. 4908572 MW-OS 5N

Collection Date: 05-Oct-12 3:30 PM

Sample #: 2012021647

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
 TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Tel: (615)726-0177

TestAmerica Job ID: 490-8572-1
 Client Project/Site: Pine Street MGP J12100210

For:
 Duke Energy Corporation
 13339 Hagers Ferry Road
 Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
 10/19/2012 9:14:30 AM

Shali Brown
 Project Manager I
shali.brown@testamericainc.com

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 results through
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-8572-1	MW-OS 20S	Water	10/05/12 10:35	10/06/12 08:15
490-8572-2	MW-OS 25S	Water	10/05/12 11:20	10/06/12 08:15
490-8572-3	MW-OS 10S	Water	10/05/12 12:15	10/06/12 08:15
490-8572-4	MW-OS 5S	Water	10/05/12 13:05	10/06/12 08:15
490-8572-5	MW-OS 5E	Water	10/05/12 13:55	10/06/12 08:15
490-8572-6	MW-OS 10E	Water	10/05/12 14:40	10/06/12 08:15
490-8572-7	MW-OS 5N	Water	10/05/12 15:30	10/06/12 08:15

- 1
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Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Job ID: 490-8572-1

Laboratory: TestAmerica Nashville**Narrative**

CASE NARRATIVE**Client: Duke Energy Corporation****Project: Pine Street MGP J12100210****Report Number: 490-8572-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/06/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -0.2° C, 0.3° C, 0.5° C and 1.3° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/13/2012 and 10/17/2012.

Carbon disulfide was detected in method blank MB 490-28589/4 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,1-Dichloroethene failed the recovery criteria high for LCS 490-27823/3. 1,1-Dichloroethene, 1,2,3-Trichlorobenzene, 1,2-Dichloroethane, Trichloroethene and Trichlorofluoromethane failed the recovery criteria high for LCS 490-28589/3. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Job ID: 490-8572-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Samples MW-OS 20S (490-8572-1)[50X], MW-OS 25S (490-8572-2)[20X], MW-OS 10S (490-8572-3)[50X], MW-OS 5S (490-8572-4)[100X], MW-OS 5E (490-8572-5)[10X], MW-OS 10E (490-8572-6)[5X] and MW-OS 5N (490-8572-7)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 10/10/2012 and analyzed on 10/13/2012, 10/14/2012 and 10/15/2012.

2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for MW-OS 20S (490-8572-1).

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

4-Nitrophenol exceeded the rpd limit for LCSD 490-26888/3-A. Refer to the QC report for details.

Samples MW-OS 20S (490-8572-1)[10X], MW-OS 20S (490-8572-1)[20X], MW-OS 25S (490-8572-2)[5X], MW-OS 10S (490-8572-3)[10X], MW-OS 5S (490-8572-4)[10X], MW-OS 5S (490-8572-4)[50X], MW-OS 10E (490-8572-6)[2X] and MW-OS 5N (490-8572-7)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 10/09/2012.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 26278. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 10/10/2012 and analyzed on 10/10/2012 and 10/11/2012.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 26873.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples MW-OS 20S (490-8572-1)[4X], MW-OS 25S (490-8572-2)[4X], MW-OS 10S (490-8572-3)[4X], MW-OS 5S (490-8572-4)[4X] and MW-OS 5N (490-8572-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/11/2012 and analyzed on 10/12/2012.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Job ID: 490-8572-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Iron failed the recovery criteria high for the MS of sample 490-8676-1 in batch 490-28088.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

SULFATE

Samples MW-OS 20S (490-8572-1), MW-OS 25S (490-8572-2), MW-OS 10S (490-8572-3), MW-OS 5S (490-8572-4), MW-OS 5E (490-8572-5), MW-OS 10E (490-8572-6) and MW-OS 5N (490-8572-7) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 10/09/2012.

Sulfate failed the recovery criteria high for the MS of sample 490-8476-10 in batch 490-26485.

Refer to the QC report for details.

No other difficulties were encountered during the sulfate analyses. All other quality control parameters were within the acceptance limits.



Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
B	Compound was found in the blank and sample.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 20S

Lab Sample ID: 490-8572-1

Date Collected: 10/05/12 10:35

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 04:54	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 04:54	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 04:54	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 04:54	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 04:54	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 04:54	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 04:54	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 04:54	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 04:54	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
1,2,4-Trimethylbenzene	105		1.00	ug/L			10/13/12 04:54	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 04:54	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 04:54	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 04:54	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 04:54	1
1,3,5-Trimethylbenzene	34.5		1.00	ug/L			10/13/12 04:54	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 04:54	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 04:54	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 04:54	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 04:54	1
2-Hexanone	ND		10.0	ug/L			10/13/12 04:54	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 04:54	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 04:54	1
Acetone	ND		50.0	ug/L			10/13/12 04:54	1
Benzene	27.7		1.00	ug/L			10/13/12 04:54	1
Bromobenzene	ND		1.00	ug/L			10/13/12 04:54	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 04:54	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 04:54	1
Bromoform	ND		1.00	ug/L			10/13/12 04:54	1
Bromomethane	ND		1.00	ug/L			10/13/12 04:54	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 04:54	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 04:54	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 04:54	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 04:54	1
Chloroethane	ND		1.00	ug/L			10/13/12 04:54	1
Chloroform	ND		1.00	ug/L			10/13/12 04:54	1
Chloromethane	ND		1.00	ug/L			10/13/12 04:54	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 04:54	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 04:54	1
Dibromomethane	ND		1.00	ug/L			10/13/12 04:54	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 04:54	1
Ethylbenzene	60.0		1.00	ug/L			10/13/12 04:54	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 04:54	1
Isopropylbenzene	16.2		1.00	ug/L			10/13/12 04:54	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 04:54	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 04:54	1
Naphthalene	2430		250	ug/L			10/17/12 04:18	50

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 20S

Lab Sample ID: 490-8572-1

Date Collected: 10/05/12 10:35

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 04:54	1
N-Propylbenzene	9.75		1.00	ug/L			10/13/12 04:54	1
p-Isopropyltoluene	7.35		1.00	ug/L			10/13/12 04:54	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 04:54	1
Styrene	ND		1.00	ug/L			10/13/12 04:54	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 04:54	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 04:54	1
Toluene	2.53		1.00	ug/L			10/13/12 04:54	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 04:54	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 04:54	1
Trichloroethene	ND		1.00	ug/L			10/13/12 04:54	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 04:54	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 04:54	1
Xylenes, Total	49.5		3.00	ug/L			10/13/12 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		10/13/12 04:54	1
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		10/17/12 04:18	50
4-Bromofluorobenzene (Surr)	90		70 - 130		10/13/12 04:54	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/17/12 04:18	50
Dibromofluoromethane (Surr)	118		70 - 130		10/13/12 04:54	1
Dibromofluoromethane (Surr)	114		70 - 130		10/17/12 04:18	50
Toluene-d8 (Surr)	94		70 - 130		10/13/12 04:54	1
Toluene-d8 (Surr)	101		70 - 130		10/17/12 04:18	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
1,2-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
1,3-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
1,4-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
1-Methylnaphthalene	744		23.5	ug/L		10/10/12 07:49	10/14/12 19:25	10
2,4,5-Trichlorophenol	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,4-Dichlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,4-Dimethylphenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,4-Dinitrophenol	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,4-Dinitrotoluene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2,6-Dinitrotoluene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2-Chloronaphthalene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2-Chlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2-Methylnaphthalene	607		23.5	ug/L		10/10/12 07:49	10/14/12 19:25	10
2-Methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
2-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
2-Nitrophenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
3 & 4 Methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
3-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 20S

Lab Sample ID: 490-8572-1

Date Collected: 10/05/12 10:35

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
4-Chloroaniline	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
4-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
4-Nitrophenol	ND	*	29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
Acenaphthylene	8.01		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Acenaphthene	187		23.5	ug/L		10/10/12 07:49	10/14/12 19:25	10
Benzo[a]anthracene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Benzo[a]pyrene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Anthracene	8.86		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Butyl benzyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Carbazole	53.8		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Chrysene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Cresols	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Dibenzofuran	29.0		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Diethyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Dimethyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Di-n-butyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Di-n-octyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Fluoranthene	2.53		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Fluorene	51.8		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Hexachlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Hexachlorobutadiene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Hexachloroethane	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Isophorone	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Naphthalene	1660		47.1	ug/L		10/10/12 07:49	10/15/12 03:52	20
Nitrobenzene	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Pentachlorophenol	ND		29.4	ug/L		10/10/12 07:49	10/13/12 02:36	1
Phenanthrene	50.4		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
Phenol	ND		11.8	ug/L		10/10/12 07:49	10/13/12 02:36	1
Pyrene	3.55		2.35	ug/L		10/10/12 07:49	10/13/12 02:36	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	93		10 - 120			10/10/12 07:49	10/13/12 02:36	1
2,4,6-Tribromophenol (Surr)	72		10 - 120			10/10/12 07:49	10/15/12 03:52	20
2-Fluorobiphenyl (Surr)	70		29 - 120			10/10/12 07:49	10/13/12 02:36	1
2-Fluorobiphenyl (Surr)	84		29 - 120			10/10/12 07:49	10/15/12 03:52	20
2-Fluorophenol (Surr)	33		10 - 120			10/10/12 07:49	10/13/12 02:36	1
2-Fluorophenol (Surr)	0	X	10 - 120			10/10/12 07:49	10/15/12 03:52	20

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 20S

Lab Sample ID: 490-8572-1

Date Collected: 10/05/12 10:35

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	61		27 - 120	10/10/12 07:49	10/13/12 02:36	1
Nitrobenzene-d5 (Surr)	0	X	27 - 120	10/10/12 07:49	10/15/12 03:52	20
Phenol-d5 (Surr)	19		10 - 120	10/10/12 07:49	10/13/12 02:36	1
Phenol-d5 (Surr)	0	X	10 - 120	10/10/12 07:49	10/15/12 03:52	20
Terphenyl-d14 (Surr)	97		13 - 120	10/10/12 07:49	10/13/12 02:36	1
Terphenyl-d14 (Surr)	100		13 - 120	10/10/12 07:49	10/15/12 03:52	20

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	1170		100	ug/L			10/09/12 00:16	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	114		50 - 150		10/09/12 00:16	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6290		400	ug/L		10/10/12 07:05	10/11/12 15:37	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	94		50 - 150		10/10/12 07:05	10/11/12 15:37	4	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	9.62		1.00	mg/L			10/09/12 03:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:16	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:16	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:16	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:16	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:16	1
Manganese	5.47		0.0150	mg/L		10/11/12 09:23	10/12/12 15:16	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:16	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:16	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:16	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 25S

Lab Sample ID: 490-8572-2

Date Collected: 10/05/12 11:20

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 05:22	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 05:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 05:22	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 05:22	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 05:22	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 05:22	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 05:22	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 05:22	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 05:22	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
1,2,4-Trimethylbenzene	48.9		1.00	ug/L			10/13/12 05:22	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 05:22	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 05:22	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 05:22	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 05:22	1
1,3,5-Trimethylbenzene	24.8		1.00	ug/L			10/13/12 05:22	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 05:22	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 05:22	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 05:22	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 05:22	1
2-Hexanone	ND		10.0	ug/L			10/13/12 05:22	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 05:22	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 05:22	1
Acetone	ND		50.0	ug/L			10/13/12 05:22	1
Benzene	19.8		1.00	ug/L			10/13/12 05:22	1
Bromobenzene	ND		1.00	ug/L			10/13/12 05:22	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 05:22	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 05:22	1
Bromoform	ND		1.00	ug/L			10/13/12 05:22	1
Bromomethane	ND		1.00	ug/L			10/13/12 05:22	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 05:22	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 05:22	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 05:22	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 05:22	1
Chloroethane	ND		1.00	ug/L			10/13/12 05:22	1
Chloroform	ND		1.00	ug/L			10/13/12 05:22	1
Chloromethane	ND		1.00	ug/L			10/13/12 05:22	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 05:22	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 05:22	1
Dibromomethane	ND		1.00	ug/L			10/13/12 05:22	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 05:22	1
Ethylbenzene	35.6		1.00	ug/L			10/13/12 05:22	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 05:22	1
Isopropylbenzene	10.1		1.00	ug/L			10/13/12 05:22	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 05:22	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 05:22	1
Naphthalene	754		100	ug/L			10/17/12 04:45	20

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 25S

Lab Sample ID: 490-8572-2

Date Collected: 10/05/12 11:20

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 05:22	1
N-Propylbenzene	6.52		1.00	ug/L			10/13/12 05:22	1
p-Isopropyltoluene	2.94		1.00	ug/L			10/13/12 05:22	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 05:22	1
Styrene	1.24		1.00	ug/L			10/13/12 05:22	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 05:22	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 05:22	1
Toluene	1.32		1.00	ug/L			10/13/12 05:22	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 05:22	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 05:22	1
Trichloroethene	ND		1.00	ug/L			10/13/12 05:22	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 05:22	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 05:22	1
Xylenes, Total	28.7		3.00	ug/L			10/13/12 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		10/13/12 05:22	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 130		10/17/12 04:45	20
4-Bromofluorobenzene (Surr)	92		70 - 130		10/13/12 05:22	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/17/12 04:45	20
Dibromofluoromethane (Surr)	110		70 - 130		10/13/12 05:22	1
Dibromofluoromethane (Surr)	116		70 - 130		10/17/12 04:45	20
Toluene-d8 (Surr)	95		70 - 130		10/13/12 05:22	1
Toluene-d8 (Surr)	101		70 - 130		10/17/12 04:45	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
1,2-Dichlorobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
1,3-Dichlorobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
1,4-Dichlorobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
1-Methylnaphthalene	573		13.3	ug/L		10/10/12 07:49	10/14/12 20:09	5
2,4,5-Trichlorophenol	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,4,6-Trichlorophenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,4-Dichlorophenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,4-Dimethylphenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,4-Dinitrophenol	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,4-Dinitrotoluene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2,6-Dinitrotoluene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Chloronaphthalene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Chlorophenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Methylnaphthalene	78.1		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Methylphenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Nitroaniline	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
2-Nitrophenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
3,3'-Dichlorobenzidine	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
3 & 4 Methylphenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
3-Nitroaniline	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4,6-Dinitro-2-methylphenol	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4-Bromophenyl phenyl ether	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4-Chloro-3-methylphenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 25S

Lab Sample ID: 490-8572-2

Date Collected: 10/05/12 11:20

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4-Chloroaniline	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4-Nitroaniline	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
4-Nitrophenol	ND	*	33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Acenaphthylene	14.1		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Acenaphthene	164		13.3	ug/L		10/10/12 07:49	10/14/12 20:09	5
Benzo[a]anthracene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Benzo[a]pyrene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Benzo[b]fluoranthene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Benzo[g,h,i]perylene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Benzo[k]fluoranthene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Anthracene	9.30		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Bis(2-chloroethoxy)methane	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Bis(2-chloroethyl)ether	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Bis(2-ethylhexyl) phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
bis (2-chloroisopropyl) ether	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Butyl benzyl phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Carbazole	38.5		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Chrysene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Cresols	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Dibenz(a,h)anthracene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Dibenzofuran	35.6		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Diethyl phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Dimethyl phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Di-n-butyl phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Di-n-octyl phthalate	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Fluoranthene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Fluorene	53.0		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Hexachlorobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Hexachlorobutadiene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Hexachlorocyclopentadiene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Hexachloroethane	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Indeno[1,2,3-cd]pyrene	ND		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Isophorone	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Naphthalene	544		13.3	ug/L		10/10/12 07:49	10/14/12 20:09	5
Nitrobenzene	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
N-Nitrosodi-n-propylamine	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Pentachlorophenol	ND		33.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Phenanthrene	54.7		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Phenol	ND		13.3	ug/L		10/10/12 07:49	10/14/12 19:47	1
Pyrene	3.31		2.67	ug/L		10/10/12 07:49	10/14/12 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120			10/10/12 07:49	10/14/12 19:47	1
2-Fluorobiphenyl (Surr)	65		29 - 120			10/10/12 07:49	10/14/12 19:47	1
2-Fluorophenol (Surr)	35		10 - 120			10/10/12 07:49	10/14/12 19:47	1
Nitrobenzene-d5 (Surr)	62		27 - 120			10/10/12 07:49	10/14/12 19:47	1
Phenol-d5 (Surr)	21		10 - 120			10/10/12 07:49	10/14/12 19:47	1
Terphenyl-d14 (Surr)	83		13 - 120			10/10/12 07:49	10/14/12 19:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 25S

Lab Sample ID: 490-8572-2

Date Collected: 10/05/12 11:20

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	796		100	ug/L			10/09/12 00:48	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	111		50 - 150				10/09/12 00:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4720		400	ug/L		10/10/12 07:05	10/11/12 15:53	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	133		50 - 150			10/10/12 07:05	10/11/12 15:53	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14.4		1.00	mg/L			10/09/12 03:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:48	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:48	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:48	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:48	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:48	1
Manganese	6.76		0.0150	mg/L		10/11/12 09:23	10/12/12 14:48	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:48	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:48	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:48	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 05:49	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 05:49	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 05:49	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 05:49	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 05:49	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 05:49	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 05:49	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 05:49	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 05:49	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
1,2,4-Trimethylbenzene	114		1.00	ug/L			10/13/12 05:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 05:49	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 05:49	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 05:49	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 05:49	1
1,3,5-Trimethylbenzene	37.6		1.00	ug/L			10/13/12 05:49	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 05:49	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 05:49	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 05:49	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 05:49	1
2-Hexanone	ND		10.0	ug/L			10/13/12 05:49	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 05:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 05:49	1
Acetone	ND		50.0	ug/L			10/13/12 05:49	1
Benzene	4.33		1.00	ug/L			10/13/12 05:49	1
Bromobenzene	ND		1.00	ug/L			10/13/12 05:49	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 05:49	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 05:49	1
Bromoform	ND		1.00	ug/L			10/13/12 05:49	1
Bromomethane	ND		1.00	ug/L			10/13/12 05:49	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 05:49	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 05:49	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 05:49	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 05:49	1
Chloroethane	ND		1.00	ug/L			10/13/12 05:49	1
Chloroform	ND		1.00	ug/L			10/13/12 05:49	1
Chloromethane	ND		1.00	ug/L			10/13/12 05:49	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 05:49	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 05:49	1
Dibromomethane	ND		1.00	ug/L			10/13/12 05:49	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 05:49	1
Ethylbenzene	66.8		1.00	ug/L			10/13/12 05:49	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 05:49	1
Isopropylbenzene	16.6		1.00	ug/L			10/13/12 05:49	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 05:49	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 05:49	1
Naphthalene	1760		250	ug/L			10/17/12 05:12	50

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 05:49	1
N-Propylbenzene	7.61		1.00	ug/L			10/13/12 05:49	1
p-Isopropyltoluene	5.96		1.00	ug/L			10/13/12 05:49	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 05:49	1
Styrene	ND		1.00	ug/L			10/13/12 05:49	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 05:49	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 05:49	1
Toluene	1.03		1.00	ug/L			10/13/12 05:49	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 05:49	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 05:49	1
Trichloroethene	ND		1.00	ug/L			10/13/12 05:49	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 05:49	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 05:49	1
Xylenes, Total	50.7		3.00	ug/L			10/13/12 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		10/13/12 05:49	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 130		10/17/12 05:12	50
4-Bromofluorobenzene (Surr)	91		70 - 130		10/13/12 05:49	1
4-Bromofluorobenzene (Surr)	89		70 - 130		10/17/12 05:12	50
Dibromofluoromethane (Surr)	116		70 - 130		10/13/12 05:49	1
Dibromofluoromethane (Surr)	110		70 - 130		10/17/12 05:12	50
Toluene-d8 (Surr)	100		70 - 130		10/13/12 05:49	1
Toluene-d8 (Surr)	103		70 - 130		10/17/12 05:12	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
1,2-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
1,3-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
1,4-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
1-Methylnaphthalene	526		25.0	ug/L		10/10/12 07:49	10/14/12 20:54	10
2,4,5-Trichlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,4-Dichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,4-Dimethylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,4-Dinitrophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,4-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2,6-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2-Chloronaphthalene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2-Chlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2-Methylnaphthalene	524		25.0	ug/L		10/10/12 07:49	10/14/12 20:54	10
2-Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
2-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
2-Nitrophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
3 & 4 Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
3-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
4-Chloroaniline	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
4-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
4-Nitrophenol	ND	*	31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
Acenaphthylene	4.31		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Acenaphthene	132		25.0	ug/L		10/10/12 07:49	10/14/12 20:54	10
Benzo[a]anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Benzo[a]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Benzo[b]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Benzo[k]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Anthracene	8.64		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Butyl benzyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Carbazole	28.5		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Chrysene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Cresols	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Dibenzofuran	19.5		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Diethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Dimethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Di-n-butyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Di-n-octyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Fluoranthene	2.50		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Fluorene	41.1		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Hexachlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Hexachlorobutadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Hexachloroethane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Isophorone	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Naphthalene	1150		25.0	ug/L		10/10/12 07:49	10/14/12 20:54	10
Nitrobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Pentachlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 20:31	1
Phenanthrene	45.6		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
Phenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 20:31	1
Pyrene	2.99		2.50	ug/L		10/10/12 07:49	10/14/12 20:31	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	93		10 - 120			10/10/12 07:49	10/14/12 20:31	1
<i>2-Fluorobiphenyl (Surr)</i>	78		29 - 120			10/10/12 07:49	10/14/12 20:31	1
<i>2-Fluorophenol (Surr)</i>	44		10 - 120			10/10/12 07:49	10/14/12 20:31	1
<i>Nitrobenzene-d5 (Surr)</i>	72		27 - 120			10/10/12 07:49	10/14/12 20:31	1
<i>Phenol-d5 (Surr)</i>	30		10 - 120			10/10/12 07:49	10/14/12 20:31	1
<i>Terphenyl-d14 (Surr)</i>	101		13 - 120			10/10/12 07:49	10/14/12 20:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	1200		100	ug/L			10/09/12 01:20	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	107		50 - 150				10/09/12 01:20	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5460		400	ug/L		10/10/12 07:05	10/11/12 16:10	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	96		50 - 150			10/10/12 07:05	10/11/12 16:10	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	43.7		1.00	mg/L			10/09/12 04:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:09	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:09	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:09	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:09	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:09	1
Manganese	2.11		0.0150	mg/L		10/11/12 09:23	10/12/12 15:09	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:09	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:09	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:09	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5S

Lab Sample ID: 490-8572-4

Date Collected: 10/05/12 13:05

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 06:16	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 06:16	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 06:16	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 06:16	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 06:16	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 06:16	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 06:16	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 06:16	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 06:16	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
1,2,4-Trimethylbenzene	147		1.00	ug/L			10/13/12 06:16	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 06:16	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 06:16	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 06:16	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 06:16	1
1,3,5-Trimethylbenzene	43.6		1.00	ug/L			10/13/12 06:16	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 06:16	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 06:16	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 06:16	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 06:16	1
2-Hexanone	ND		10.0	ug/L			10/13/12 06:16	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 06:16	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 06:16	1
Acetone	ND		50.0	ug/L			10/13/12 06:16	1
Benzene	8.80		1.00	ug/L			10/13/12 06:16	1
Bromobenzene	ND		1.00	ug/L			10/13/12 06:16	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 06:16	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 06:16	1
Bromoform	ND		1.00	ug/L			10/13/12 06:16	1
Bromomethane	ND		1.00	ug/L			10/13/12 06:16	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 06:16	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 06:16	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 06:16	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 06:16	1
Chloroethane	ND		1.00	ug/L			10/13/12 06:16	1
Chloroform	ND		1.00	ug/L			10/13/12 06:16	1
Chloromethane	ND		1.00	ug/L			10/13/12 06:16	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 06:16	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 06:16	1
Dibromomethane	ND		1.00	ug/L			10/13/12 06:16	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 06:16	1
Ethylbenzene	105		1.00	ug/L			10/13/12 06:16	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 06:16	1
Isopropylbenzene	21.7		1.00	ug/L			10/13/12 06:16	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 06:16	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 06:16	1
Naphthalene	2660		500	ug/L			10/17/12 05:39	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5S

Lab Sample ID: 490-8572-4

Date Collected: 10/05/12 13:05

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 06:16	1
N-Propylbenzene	10.1		1.00	ug/L			10/13/12 06:16	1
p-Isopropyltoluene	6.59		1.00	ug/L			10/13/12 06:16	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 06:16	1
Styrene	ND		1.00	ug/L			10/13/12 06:16	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 06:16	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 06:16	1
Toluene	1.74		1.00	ug/L			10/13/12 06:16	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 06:16	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 06:16	1
Trichloroethene	ND		1.00	ug/L			10/13/12 06:16	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 06:16	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 06:16	1
Xylenes, Total	80.6		3.00	ug/L			10/13/12 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		10/13/12 06:16	1
1,2-Dichloroethane-d4 (Surr)	129		70 - 130		10/17/12 05:39	100
4-Bromofluorobenzene (Surr)	93		70 - 130		10/13/12 06:16	1
4-Bromofluorobenzene (Surr)	86		70 - 130		10/17/12 05:39	100
Dibromofluoromethane (Surr)	111		70 - 130		10/13/12 06:16	1
Dibromofluoromethane (Surr)	112		70 - 130		10/17/12 05:39	100
Toluene-d8 (Surr)	95		70 - 130		10/13/12 06:16	1
Toluene-d8 (Surr)	103		70 - 130		10/17/12 05:39	100

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
1,2-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
1,3-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
1,4-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
1-Methylnaphthalene	605		25.0	ug/L		10/10/12 07:49	10/14/12 21:38	10
2,4,5-Trichlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,4-Dichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,4-Dimethylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,4-Dinitrophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,4-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2,6-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2-Chloronaphthalene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2-Chlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2-Methylnaphthalene	501		25.0	ug/L		10/10/12 07:49	10/14/12 21:38	10
2-Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
2-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
2-Nitrophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
3 & 4 Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
3-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5S

Lab Sample ID: 490-8572-4

Date Collected: 10/05/12 13:05

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
4-Chloroaniline	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
4-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
4-Nitrophenol	ND	*	31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
Acenaphthylene	6.01		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Acenaphthene	134		25.0	ug/L		10/10/12 07:49	10/14/12 21:38	10
Benzo[a]anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Benzo[a]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Benzo[b]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Benzo[k]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Anthracene	7.51		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Butyl benzyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Carbazole	47.4		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Chrysene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Cresols	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Dibenzofuran	20.4		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Diethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Dimethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Di-n-butyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Di-n-octyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Fluoranthene	2.55		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Fluorene	38.1		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Hexachlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Hexachlorobutadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Hexachloroethane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Isophorone	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Naphthalene	2090		125	ug/L		10/10/12 07:49	10/15/12 14:32	50
Nitrobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Pentachlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 21:16	1
Phenanthrene	40.6		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
Phenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 21:16	1
Pyrene	3.19		2.50	ug/L		10/10/12 07:49	10/14/12 21:16	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	85		10 - 120			10/10/12 07:49	10/14/12 21:16	1
<i>2-Fluorobiphenyl (Surr)</i>	70		29 - 120			10/10/12 07:49	10/14/12 21:16	1
<i>2-Fluorophenol (Surr)</i>	37		10 - 120			10/10/12 07:49	10/14/12 21:16	1
<i>Nitrobenzene-d5 (Surr)</i>	65		27 - 120			10/10/12 07:49	10/14/12 21:16	1
<i>Phenol-d5 (Surr)</i>	24		10 - 120			10/10/12 07:49	10/14/12 21:16	1
<i>Terphenyl-d14 (Surr)</i>	92		13 - 120			10/10/12 07:49	10/14/12 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5S

Lab Sample ID: 490-8572-4

Date Collected: 10/05/12 13:05

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	1600		100	ug/L			10/09/12 01:52	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	108		50 - 150				10/09/12 01:52	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6220		400	ug/L		10/10/12 07:05	10/11/12 16:26	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	113		50 - 150			10/10/12 07:05	10/11/12 16:26	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	44.8		1.00	mg/L			10/09/12 04:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:44	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:44	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:44	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:44	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:44	1
Manganese	2.72		0.0150	mg/L		10/11/12 09:23	10/12/12 14:44	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:44	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:44	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:44	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5E

Lab Sample ID: 490-8572-5

Date Collected: 10/05/12 13:55

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 06:43	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 06:43	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 06:43	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 06:43	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 06:43	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 06:43	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 06:43	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 06:43	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 06:43	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
1,2,4-Trimethylbenzene	8.93		1.00	ug/L			10/13/12 06:43	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 06:43	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 06:43	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 06:43	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 06:43	1
1,3,5-Trimethylbenzene	2.36		1.00	ug/L			10/13/12 06:43	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 06:43	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 06:43	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 06:43	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 06:43	1
2-Hexanone	ND		10.0	ug/L			10/13/12 06:43	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 06:43	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 06:43	1
Acetone	ND		50.0	ug/L			10/13/12 06:43	1
Benzene	ND		1.00	ug/L			10/13/12 06:43	1
Bromobenzene	ND		1.00	ug/L			10/13/12 06:43	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 06:43	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 06:43	1
Bromoform	ND		1.00	ug/L			10/13/12 06:43	1
Bromomethane	ND		1.00	ug/L			10/13/12 06:43	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 06:43	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 06:43	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 06:43	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 06:43	1
Chloroethane	ND		1.00	ug/L			10/13/12 06:43	1
Chloroform	ND		1.00	ug/L			10/13/12 06:43	1
Chloromethane	ND		1.00	ug/L			10/13/12 06:43	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 06:43	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 06:43	1
Dibromomethane	ND		1.00	ug/L			10/13/12 06:43	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 06:43	1
Ethylbenzene	3.20		1.00	ug/L			10/13/12 06:43	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 06:43	1
Isopropylbenzene	1.21		1.00	ug/L			10/13/12 06:43	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 06:43	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 06:43	1
Naphthalene	166		50.0	ug/L			10/17/12 06:06	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5E

Lab Sample ID: 490-8572-5

Date Collected: 10/05/12 13:55

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 06:43	1
N-Propylbenzene	ND		1.00	ug/L			10/13/12 06:43	1
p-Isopropyltoluene	ND		1.00	ug/L			10/13/12 06:43	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 06:43	1
Styrene	ND		1.00	ug/L			10/13/12 06:43	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 06:43	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 06:43	1
Toluene	ND		1.00	ug/L			10/13/12 06:43	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 06:43	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 06:43	1
Trichloroethene	ND		1.00	ug/L			10/13/12 06:43	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 06:43	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 06:43	1
Xylenes, Total	ND		3.00	ug/L			10/13/12 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		10/13/12 06:43	1
1,2-Dichloroethane-d4 (Surr)	126		70 - 130		10/17/12 06:06	10
4-Bromofluorobenzene (Surr)	89		70 - 130		10/13/12 06:43	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/17/12 06:06	10
Dibromofluoromethane (Surr)	107		70 - 130		10/13/12 06:43	1
Dibromofluoromethane (Surr)	114		70 - 130		10/17/12 06:06	10
Toluene-d8 (Surr)	95		70 - 130		10/13/12 06:43	1
Toluene-d8 (Surr)	102		70 - 130		10/17/12 06:06	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
1,2-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
1,3-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
1,4-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
1-Methylnaphthalene	84.9		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4,5-Trichlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4-Dichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4-Dimethylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4-Dinitrophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,4-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2,6-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Chloronaphthalene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Chlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Methylnaphthalene	50.8		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
2-Nitrophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
3 & 4 Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
3-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5E

Lab Sample ID: 490-8572-5

Date Collected: 10/05/12 13:55

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
4-Chloroaniline	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
4-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
4-Nitrophenol	ND	*	31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
Acenaphthylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Acenaphthene	26.6		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Benzo[a]anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Benzo[a]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Benzo[b]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Benzo[k]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Butyl benzyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Carbazole	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Chrysene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Cresols	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Dibenzofuran	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Diethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Dimethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Di-n-butyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Di-n-octyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Fluorene	9.53		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Hexachlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Hexachlorobutadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Hexachloroethane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Isophorone	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Naphthalene	85.1		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Nitrobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Pentachlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:00	1
Phenanthrene	10.3		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Phenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:00	1
Pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		10 - 120			10/10/12 07:49	10/14/12 22:00	1
2-Fluorobiphenyl (Surr)	72		29 - 120			10/10/12 07:49	10/14/12 22:00	1
2-Fluorophenol (Surr)	40		10 - 120			10/10/12 07:49	10/14/12 22:00	1
Nitrobenzene-d5 (Surr)	70		27 - 120			10/10/12 07:49	10/14/12 22:00	1
Phenol-d5 (Surr)	23		10 - 120			10/10/12 07:49	10/14/12 22:00	1
Terphenyl-d14 (Surr)	99		13 - 120			10/10/12 07:49	10/14/12 22:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5E

Lab Sample ID: 490-8572-5

Date Collected: 10/05/12 13:55

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/09/12 02:24	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	105		50 - 150				10/09/12 02:24	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	872		100	ug/L		10/10/12 07:05	10/10/12 20:19	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	93		50 - 150			10/10/12 07:05	10/10/12 20:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	26.1		1.00	mg/L			10/09/12 05:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:51	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:51	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:51	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:51	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 14:51	1
Manganese	0.531		0.0150	mg/L		10/11/12 09:23	10/12/12 14:51	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:51	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:51	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 14:51	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 14:51	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10E

Lab Sample ID: 490-8572-6

Date Collected: 10/05/12 14:40

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 07:10	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 07:10	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 07:10	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 07:10	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 07:10	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 07:10	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 07:10	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 07:10	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 07:10	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
1,2,4-Trimethylbenzene	8.73		1.00	ug/L			10/13/12 07:10	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 07:10	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 07:10	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 07:10	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 07:10	1
1,3,5-Trimethylbenzene	2.23		1.00	ug/L			10/13/12 07:10	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 07:10	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 07:10	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 07:10	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 07:10	1
2-Hexanone	ND		10.0	ug/L			10/13/12 07:10	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 07:10	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 07:10	1
Acetone	ND		50.0	ug/L			10/13/12 07:10	1
Benzene	ND		1.00	ug/L			10/13/12 07:10	1
Bromobenzene	ND		1.00	ug/L			10/13/12 07:10	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 07:10	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 07:10	1
Bromoform	ND		1.00	ug/L			10/13/12 07:10	1
Bromomethane	ND		1.00	ug/L			10/13/12 07:10	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 07:10	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 07:10	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 07:10	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 07:10	1
Chloroethane	ND		1.00	ug/L			10/13/12 07:10	1
Chloroform	ND		1.00	ug/L			10/13/12 07:10	1
Chloromethane	ND		1.00	ug/L			10/13/12 07:10	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 07:10	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 07:10	1
Dibromomethane	ND		1.00	ug/L			10/13/12 07:10	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 07:10	1
Ethylbenzene	3.33		1.00	ug/L			10/13/12 07:10	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 07:10	1
Isopropylbenzene	1.21		1.00	ug/L			10/13/12 07:10	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 07:10	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 07:10	1
Naphthalene	213		25.0	ug/L			10/17/12 06:33	5

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10E

Lab Sample ID: 490-8572-6

Date Collected: 10/05/12 14:40

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 07:10	1
N-Propylbenzene	1.04		1.00	ug/L			10/13/12 07:10	1
p-Isopropyltoluene	1.30		1.00	ug/L			10/13/12 07:10	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 07:10	1
Styrene	ND		1.00	ug/L			10/13/12 07:10	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 07:10	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 07:10	1
Toluene	ND		1.00	ug/L			10/13/12 07:10	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 07:10	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 07:10	1
Trichloroethene	ND		1.00	ug/L			10/13/12 07:10	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 07:10	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 07:10	1
Xylenes, Total	ND		3.00	ug/L			10/13/12 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	112		70 - 130		10/13/12 07:10	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	125		70 - 130		10/17/12 06:33	5
<i>4-Bromofluorobenzene (Surr)</i>	89		70 - 130		10/13/12 07:10	1
<i>4-Bromofluorobenzene (Surr)</i>	91		70 - 130		10/17/12 06:33	5
<i>Dibromofluoromethane (Surr)</i>	111		70 - 130		10/13/12 07:10	1
<i>Dibromofluoromethane (Surr)</i>	112		70 - 130		10/17/12 06:33	5
<i>Toluene-d8 (Surr)</i>	96		70 - 130		10/13/12 07:10	1
<i>Toluene-d8 (Surr)</i>	102		70 - 130		10/17/12 06:33	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
1,2-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
1,3-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
1,4-Dichlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
1-Methylnaphthalene	142		5.00	ug/L		10/10/12 07:49	10/14/12 22:45	2
2,4,5-Trichlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,4-Dichlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,4-Dimethylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,4-Dinitrophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,4-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2,6-Dinitrotoluene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Chloronaphthalene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Chlorophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Methylnaphthalene	67.2		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
2-Nitrophenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
3 & 4 Methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
3-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10E

Lab Sample ID: 490-8572-6

Date Collected: 10/05/12 14:40

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
4-Chloroaniline	37.8		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
4-Nitroaniline	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
4-Nitrophenol	ND	*	31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
Acenaphthylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Acenaphthene	56.9		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Benzo[a]anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Benzo[a]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Benzo[b]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Benzo[k]fluoranthene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Anthracene	6.90		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Butyl benzyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Carbazole	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Chrysene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Cresols	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Dibenzofuran	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Diethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Dimethyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Di-n-butyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Di-n-octyl phthalate	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Fluoranthene	2.66		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Fluorene	24.0		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Hexachlorobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Hexachlorobutadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Hexachloroethane	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Isophorone	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Naphthalene	111		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Nitrobenzene	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Pentachlorophenol	ND		31.3	ug/L		10/10/12 07:49	10/14/12 22:23	1
Phenanthrene	35.3		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Phenol	ND		12.5	ug/L		10/10/12 07:49	10/14/12 22:23	1
Pyrene	3.45		2.50	ug/L		10/10/12 07:49	10/14/12 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		10 - 120			10/10/12 07:49	10/14/12 22:23	1
2-Fluorobiphenyl (Surr)	71		29 - 120			10/10/12 07:49	10/14/12 22:23	1
2-Fluorophenol (Surr)	38		10 - 120			10/10/12 07:49	10/14/12 22:23	1
Nitrobenzene-d5 (Surr)	66		27 - 120			10/10/12 07:49	10/14/12 22:23	1
Phenol-d5 (Surr)	26		10 - 120			10/10/12 07:49	10/14/12 22:23	1
Terphenyl-d14 (Surr)	99		13 - 120			10/10/12 07:49	10/14/12 22:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10E

Lab Sample ID: 490-8572-6

Date Collected: 10/05/12 14:40

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/09/12 02:56	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	108		50 - 150				10/09/12 02:56	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1310		100	ug/L		10/10/12 07:05	10/10/12 20:35	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	67		50 - 150			10/10/12 07:05	10/10/12 20:35	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	20.3		1.00	mg/L			10/09/12 05:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:13	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:13	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:13	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:13	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:13	1
Manganese	0.725		0.0150	mg/L		10/11/12 09:23	10/12/12 15:13	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:13	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:13	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:13	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5N

Lab Sample ID: 490-8572-7

Date Collected: 10/05/12 15:30

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 07:37	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/13/12 07:37	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/13/12 07:37	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/13/12 07:37	1
1,1-Dichloroethane	ND		1.00	ug/L			10/13/12 07:37	1
Diisopropyl ether	ND		2.00	ug/L			10/13/12 07:37	1
1,1-Dichloroethene	ND	*	1.00	ug/L			10/13/12 07:37	1
1,1-Dichloropropene	ND		1.00	ug/L			10/13/12 07:37	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/13/12 07:37	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
1,2,4-Trimethylbenzene	28.1		1.00	ug/L			10/13/12 07:37	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/13/12 07:37	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/13/12 07:37	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
1,2-Dichloroethane	ND		1.00	ug/L			10/13/12 07:37	1
1,2-Dichloropropane	ND		1.00	ug/L			10/13/12 07:37	1
1,3,5-Trimethylbenzene	8.89		1.00	ug/L			10/13/12 07:37	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
1,3-Dichloropropane	ND		1.00	ug/L			10/13/12 07:37	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
2,2-Dichloropropane	ND		1.00	ug/L			10/13/12 07:37	1
2-Butanone (MEK)	ND		50.0	ug/L			10/13/12 07:37	1
2-Chlorotoluene	ND		1.00	ug/L			10/13/12 07:37	1
2-Hexanone	ND		10.0	ug/L			10/13/12 07:37	1
4-Chlorotoluene	ND		1.00	ug/L			10/13/12 07:37	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/13/12 07:37	1
Acetone	ND		50.0	ug/L			10/13/12 07:37	1
Benzene	3.41		1.00	ug/L			10/13/12 07:37	1
Bromobenzene	ND		1.00	ug/L			10/13/12 07:37	1
Bromochloromethane	ND		1.00	ug/L			10/13/12 07:37	1
Bromodichloromethane	ND		1.00	ug/L			10/13/12 07:37	1
Bromoform	ND		1.00	ug/L			10/13/12 07:37	1
Bromomethane	ND		1.00	ug/L			10/13/12 07:37	1
Carbon disulfide	ND		1.00	ug/L			10/13/12 07:37	1
Carbon tetrachloride	ND		1.00	ug/L			10/13/12 07:37	1
Chlorobenzene	ND		1.00	ug/L			10/13/12 07:37	1
Chlorodibromomethane	ND		1.00	ug/L			10/13/12 07:37	1
Chloroethane	ND		1.00	ug/L			10/13/12 07:37	1
Chloroform	ND		1.00	ug/L			10/13/12 07:37	1
Chloromethane	ND		1.00	ug/L			10/13/12 07:37	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 07:37	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 07:37	1
Dibromomethane	ND		1.00	ug/L			10/13/12 07:37	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/13/12 07:37	1
Ethylbenzene	18.7		1.00	ug/L			10/13/12 07:37	1
Hexachlorobutadiene	ND		2.00	ug/L			10/13/12 07:37	1
Isopropylbenzene	4.62		1.00	ug/L			10/13/12 07:37	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/13/12 07:37	1
Methylene Chloride	ND		5.00	ug/L			10/13/12 07:37	1
Naphthalene	258		25.0	ug/L			10/17/12 07:00	5

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5N

Lab Sample ID: 490-8572-7

Date Collected: 10/05/12 15:30

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.00	ug/L			10/13/12 07:37	1
N-Propylbenzene	2.01		1.00	ug/L			10/13/12 07:37	1
p-Isopropyltoluene	1.26		1.00	ug/L			10/13/12 07:37	1
sec-Butylbenzene	ND		1.00	ug/L			10/13/12 07:37	1
Styrene	ND		1.00	ug/L			10/13/12 07:37	1
tert-Butylbenzene	ND		1.00	ug/L			10/13/12 07:37	1
Tetrachloroethene	ND		1.00	ug/L			10/13/12 07:37	1
Toluene	ND		1.00	ug/L			10/13/12 07:37	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/13/12 07:37	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/13/12 07:37	1
Trichloroethene	ND		1.00	ug/L			10/13/12 07:37	1
Trichlorofluoromethane	ND		1.00	ug/L			10/13/12 07:37	1
Vinyl chloride	ND		1.00	ug/L			10/13/12 07:37	1
Xylenes, Total	13.4		3.00	ug/L			10/13/12 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		70 - 130		10/13/12 07:37	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 130		10/17/12 07:00	5
4-Bromofluorobenzene (Surr)	91		70 - 130		10/13/12 07:37	1
4-Bromofluorobenzene (Surr)	90		70 - 130		10/17/12 07:00	5
Dibromofluoromethane (Surr)	111		70 - 130		10/13/12 07:37	1
Dibromofluoromethane (Surr)	109		70 - 130		10/17/12 07:00	5
Toluene-d8 (Surr)	82		70 - 130		10/13/12 07:37	1
Toluene-d8 (Surr)	104		70 - 130		10/17/12 07:00	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
1,2-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
1,3-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
1,4-Dichlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
1-Methylnaphthalene	189		11.8	ug/L		10/10/12 07:49	10/14/12 23:29	5
2,4,5-Trichlorophenol	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,4-Dichlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,4-Dimethylphenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,4-Dinitrophenol	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,4-Dinitrotoluene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2,6-Dinitrotoluene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Chloronaphthalene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Chlorophenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Methylnaphthalene	12.4		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
2-Nitrophenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
3 & 4 Methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
3-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5N

Lab Sample ID: 490-8572-7

Date Collected: 10/05/12 15:30

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
4-Chloroaniline	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
4-Nitroaniline	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
4-Nitrophenol	ND	*	29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
Acenaphthylene	6.85		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Acenaphthene	44.3		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Benzo[a]anthracene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Benzo[a]pyrene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Anthracene	5.76		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Butyl benzyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Carbazole	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Chrysene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Cresols	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Dibenzofuran	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Diethyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Dimethyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Di-n-butyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Di-n-octyl phthalate	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Fluoranthene	3.22		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Fluorene	19.4		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Hexachlorobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Hexachlorobutadiene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Hexachloroethane	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Isophorone	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Naphthalene	222		11.8	ug/L		10/10/12 07:49	10/14/12 23:29	5
Nitrobenzene	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Pentachlorophenol	ND		29.4	ug/L		10/10/12 07:49	10/14/12 23:07	1
Phenanthrene	29.4		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
Phenol	ND		11.8	ug/L		10/10/12 07:49	10/14/12 23:07	1
Pyrene	3.02		2.35	ug/L		10/10/12 07:49	10/14/12 23:07	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>51</i>		<i>10 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>48</i>		<i>29 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>23</i>		<i>10 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>46</i>		<i>27 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>
<i>Phenol-d5 (Surr)</i>	<i>16</i>		<i>10 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>
<i>Terphenyl-d14 (Surr)</i>	<i>59</i>		<i>13 - 120</i>			<i>10/10/12 07:49</i>	<i>10/14/12 23:07</i>	<i>1</i>

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 5N

Lab Sample ID: 490-8572-7

Date Collected: 10/05/12 15:30

Matrix: Water

Date Received: 10/06/12 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	246		100	ug/L			10/09/12 03:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	107		50 - 150				10/09/12 03:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1870		200	ug/L		10/10/12 07:05	10/11/12 16:42	2
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	81		50 - 150			10/10/12 07:05	10/11/12 16:42	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	48.6		1.00	mg/L			10/09/12 05:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:06	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 15:06	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:06	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:06	1
Lead	0.00500		0.00500	mg/L		10/11/12 09:23	10/12/12 15:06	1
Manganese	1.78		0.0150	mg/L		10/11/12 09:23	10/12/12 15:06	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:06	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:06	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 15:06	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 15:06	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-27823/4

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/12/12 23:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/12/12 23:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/12/12 23:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/12/12 23:30	1
1,1-Dichloroethane	ND		1.00	ug/L			10/12/12 23:30	1
Diisopropyl ether	ND		2.00	ug/L			10/12/12 23:30	1
1,1-Dichloroethene	ND		1.00	ug/L			10/12/12 23:30	1
1,1-Dichloropropene	ND		1.00	ug/L			10/12/12 23:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/12/12 23:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/12/12 23:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/12/12 23:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,2-Dichloroethane	ND		1.00	ug/L			10/12/12 23:30	1
1,2-Dichloropropane	ND		1.00	ug/L			10/12/12 23:30	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
1,3-Dichloropropane	ND		1.00	ug/L			10/12/12 23:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
2,2-Dichloropropane	ND		1.00	ug/L			10/12/12 23:30	1
2-Butanone (MEK)	ND		50.0	ug/L			10/12/12 23:30	1
2-Chlorotoluene	ND		1.00	ug/L			10/12/12 23:30	1
2-Hexanone	ND		10.0	ug/L			10/12/12 23:30	1
4-Chlorotoluene	ND		1.00	ug/L			10/12/12 23:30	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/12/12 23:30	1
Acetone	ND		50.0	ug/L			10/12/12 23:30	1
Benzene	ND		1.00	ug/L			10/12/12 23:30	1
Bromobenzene	ND		1.00	ug/L			10/12/12 23:30	1
Bromochloromethane	ND		1.00	ug/L			10/12/12 23:30	1
Bromodichloromethane	ND		1.00	ug/L			10/12/12 23:30	1
Bromoform	ND		1.00	ug/L			10/12/12 23:30	1
Bromomethane	ND		1.00	ug/L			10/12/12 23:30	1
Carbon disulfide	ND		1.00	ug/L			10/12/12 23:30	1
Carbon tetrachloride	ND		1.00	ug/L			10/12/12 23:30	1
Chlorobenzene	ND		1.00	ug/L			10/12/12 23:30	1
Chlorodibromomethane	ND		1.00	ug/L			10/12/12 23:30	1
Chloroethane	ND		1.00	ug/L			10/12/12 23:30	1
Chloroform	ND		1.00	ug/L			10/12/12 23:30	1
Chloromethane	ND		1.00	ug/L			10/12/12 23:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/12/12 23:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/12/12 23:30	1
Dibromomethane	ND		1.00	ug/L			10/12/12 23:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/12/12 23:30	1
Ethylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
Hexachlorobutadiene	ND		2.00	ug/L			10/12/12 23:30	1
Isopropylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/12/12 23:30	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-27823/4

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/12/12 23:30	1
Naphthalene	ND		5.00	ug/L			10/12/12 23:30	1
n-Butylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
N-Propylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
p-Isopropyltoluene	ND		1.00	ug/L			10/12/12 23:30	1
sec-Butylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
Styrene	ND		1.00	ug/L			10/12/12 23:30	1
tert-Butylbenzene	ND		1.00	ug/L			10/12/12 23:30	1
Tetrachloroethene	ND		1.00	ug/L			10/12/12 23:30	1
Toluene	ND		1.00	ug/L			10/12/12 23:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/12/12 23:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/12/12 23:30	1
Trichloroethene	ND		1.00	ug/L			10/12/12 23:30	1
Trichlorofluoromethane	ND		1.00	ug/L			10/12/12 23:30	1
Vinyl chloride	ND		1.00	ug/L			10/12/12 23:30	1
Xylenes, Total	ND		3.00	ug/L			10/12/12 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		10/12/12 23:30	1
4-Bromofluorobenzene (Surr)	90		70 - 130		10/12/12 23:30	1
Dibromofluoromethane (Surr)	115		70 - 130		10/12/12 23:30	1
Toluene-d8 (Surr)	106		70 - 130		10/12/12 23:30	1

Lab Sample ID: LCS 490-27823/3

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	22.12		ug/L		111	74 - 135
1,1,1-Trichloroethane	20.0	23.27		ug/L		116	78 - 135
1,1,2,2-Tetrachloroethane	20.0	19.04		ug/L		95	69 - 131
1,1,2-Trichloroethane	20.0	19.80		ug/L		99	80 - 124
1,1-Dichloroethane	20.0	21.23		ug/L		106	78 - 125
Diisopropyl ether	20.0	17.67		ug/L		88	61 - 142
1,1-Dichloroethene	20.0	24.94 *		ug/L		125	79 - 124
1,1-Dichloropropene	20.0	20.11		ug/L		101	80 - 122
1,2,3-Trichlorobenzene	20.0	26.63		ug/L		133	62 - 133
1,2,3-Trichloropropane	20.0	18.70		ug/L		94	70 - 131
1,2,4-Trichlorobenzene	20.0	23.58		ug/L		118	63 - 133
1,2,4-Trimethylbenzene	20.0	19.00		ug/L		95	77 - 126
1,2-Dibromo-3-Chloropropane	20.0	20.40		ug/L		102	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.65		ug/L		103	80 - 129
1,2-Dichlorobenzene	20.0	21.19		ug/L		106	80 - 121
1,2-Dichloroethane	20.0	22.31		ug/L		112	77 - 121
1,2-Dichloropropane	20.0	18.74		ug/L		94	75 - 120
1,3,5-Trimethylbenzene	20.0	19.57		ug/L		98	77 - 127
1,3-Dichlorobenzene	20.0	20.20		ug/L		101	80 - 122
1,3-Dichloropropane	20.0	18.10		ug/L		90	80 - 125
1,4-Dichlorobenzene	20.0	19.82		ug/L		99	80 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27823/3

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	22.91		ug/L		115	43 - 161
2-Butanone (MEK)	100	85.71		ug/L		86	62 - 133
2-Chlorotoluene	20.0	18.39		ug/L		92	75 - 126
2-Hexanone	100	84.72		ug/L		85	60 - 142
4-Chlorotoluene	20.0	18.91		ug/L		95	75 - 130
4-Methyl-2-pentanone (MIBK)	100	89.48		ug/L		89	60 - 137
Acetone	100	90.97		ug/L		91	54 - 145
Benzene	20.0	19.39		ug/L		97	80 - 121
Bromobenzene	20.0	19.31		ug/L		97	68 - 130
Bromochloromethane	20.0	25.27		ug/L		126	78 - 129
Bromodichloromethane	20.0	23.36		ug/L		117	75 - 129
Bromoform	20.0	23.87		ug/L		119	46 - 145
Bromomethane	20.0	17.78		ug/L		89	41 - 150
Carbon disulfide	20.0	17.67		ug/L		88	77 - 126
Carbon tetrachloride	20.0	25.63		ug/L		128	64 - 147
Chlorobenzene	20.0	19.21		ug/L		96	80 - 120
Chlorodibromomethane	20.0	22.27		ug/L		111	69 - 133
Chloroethane	20.0	18.48		ug/L		92	72 - 120
Chloroform	20.0	21.11		ug/L		106	73 - 129
Chloromethane	20.0	16.64		ug/L		83	12 - 150
cis-1,2-Dichloroethene	20.0	19.83		ug/L		99	76 - 125
cis-1,3-Dichloropropene	20.0	20.53		ug/L		103	74 - 140
Dibromomethane	20.0	23.70		ug/L		118	71 - 125
Dichlorodifluoromethane	20.0	17.88		ug/L		89	37 - 127
Ethylbenzene	20.0	18.64		ug/L		93	80 - 130
Hexachlorobutadiene	20.0	21.00		ug/L		105	49 - 146
Isopropylbenzene	20.0	20.54		ug/L		103	80 - 141
Methyl tert-butyl ether	20.0	20.45		ug/L		102	72 - 133
Methylene Chloride	20.0	22.78		ug/L		114	79 - 123
Naphthalene	20.0	21.87		ug/L		109	62 - 138
n-Butylbenzene	20.0	18.91		ug/L		95	68 - 132
N-Propylbenzene	20.0	18.54		ug/L		93	75 - 129
p-Isopropyltoluene	20.0	19.85		ug/L		99	75 - 128
sec-Butylbenzene	20.0	19.36		ug/L		97	76 - 128
Styrene	20.0	20.74		ug/L		104	80 - 127
tert-Butylbenzene	20.0	20.38		ug/L		102	76 - 126
Tetrachloroethene	20.0	22.17		ug/L		111	80 - 126
Toluene	20.0	19.87		ug/L		99	80 - 126
trans-1,2-Dichloroethene	20.0	22.43		ug/L		112	79 - 126
trans-1,3-Dichloropropene	20.0	17.63		ug/L		88	63 - 134
Trichloroethene	20.0	24.11		ug/L		121	80 - 123
Trichlorofluoromethane	20.0	21.42		ug/L		107	65 - 124
Vinyl chloride	20.0	16.36		ug/L		82	68 - 120
Xylenes, Total	60.0	59.48		ug/L		99	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-27823/3

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
<i>Toluene-d8 (Surr)</i>	100		70 - 130

Lab Sample ID: 490-8478-B-7 MS

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	55.08		ug/L		110	73 - 141
1,1,1-Trichloroethane	ND		50.0	63.73		ug/L		127	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	44.14		ug/L		88	56 - 143
1,1,2-Trichloroethane	ND		50.0	47.25		ug/L		94	74 - 134
1,1-Dichloroethane	ND		50.0	52.41		ug/L		105	71 - 139
Diisopropyl ether	ND		50.0	41.86		ug/L		84	10 - 200
1,1-Dichloroethene	ND	*	50.0	63.54		ug/L		127	70 - 142
1,1-Dichloropropene	ND		50.0	54.57		ug/L		109	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	49.25		ug/L		99	55 - 138
1,2,3-Trichloropropane	ND		50.0	45.33		ug/L		91	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	48.75		ug/L		98	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	43.11		ug/L		86	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	52.63		ug/L		105	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	51.31		ug/L		103	75 - 137
1,2-Dichlorobenzene	ND		50.0	48.23		ug/L		96	79 - 128
1,2-Dichloroethane	ND		50.0	58.18		ug/L		116	64 - 136
1,2-Dichloropropane	ND		50.0	49.09		ug/L		98	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	44.35		ug/L		89	69 - 139
1,3-Dichlorobenzene	ND		50.0	45.59		ug/L		91	77 - 131
1,3-Dichloropropane	ND		50.0	45.32		ug/L		91	72 - 134
1,4-Dichlorobenzene	ND		50.0	45.59		ug/L		91	78 - 126
2,2-Dichloropropane	ND		50.0	53.21		ug/L		106	37 - 175
2-Butanone (MEK)	ND		250	224.3		ug/L		90	50 - 138
2-Chlorotoluene	ND		50.0	42.53		ug/L		85	67 - 138
2-Hexanone	ND		250	224.7		ug/L		90	50 - 150
4-Chlorotoluene	ND		50.0	43.01		ug/L		86	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	190.2		ug/L		76	50 - 147
Acetone	ND		250	197.4		ug/L		79	45 - 141
Benzene	ND		50.0	52.29		ug/L		105	75 - 133
Bromobenzene	ND		50.0	44.33		ug/L		89	60 - 138
Bromochloromethane	ND		50.0	66.96		ug/L		134	67 - 139
Bromodichloromethane	ND		50.0	60.72		ug/L		121	70 - 140
Bromoform	ND		50.0	60.43		ug/L		121	42 - 147
Bromomethane	ND		50.0	43.16		ug/L		86	16 - 163
Carbon disulfide	ND		50.0	46.20		ug/L		92	48 - 152
Carbon tetrachloride	ND		50.0	70.20		ug/L		140	62 - 164
Chlorobenzene	ND		50.0	48.55		ug/L		97	80 - 129
Chlorodibromomethane	ND		50.0	56.15		ug/L		112	66 - 140
Chloroethane	ND		50.0	43.35		ug/L		87	58 - 137
Chloroform	ND		50.0	58.85		ug/L		118	66 - 138
Chloromethane	ND		50.0	37.10		ug/L		74	10 - 169
cis-1,2-Dichloroethene	ND		50.0	50.69		ug/L		101	68 - 138

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8478-B-7 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 27823

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
cis-1,3-Dichloropropene	ND		50.0	50.06		ug/L		100	71 - 141
Dibromomethane	ND		50.0	51.80		ug/L		104	58 - 140
Dichlorodifluoromethane	ND		50.0	36.10		ug/L		72	40 - 127
Ethylbenzene	ND		50.0	47.37		ug/L		95	79 - 139
Hexachlorobutadiene	ND		50.0	29.85		ug/L		60	45 - 155
Isopropylbenzene	ND		50.0	49.44		ug/L		99	80 - 153
Methyl tert-butyl ether	ND		50.0	49.60		ug/L		99	66 - 141
Methylene Chloride	ND		50.0	54.78		ug/L		110	64 - 139
Naphthalene	ND		50.0	59.97		ug/L		120	55 - 140
n-Butylbenzene	ND		50.0	36.70		ug/L		73	66 - 141
N-Propylbenzene	ND		50.0	42.82		ug/L		86	69 - 142
p-Isopropyltoluene	ND		50.0	42.48		ug/L		85	71 - 137
sec-Butylbenzene	ND		50.0	40.88		ug/L		82	73 - 138
Styrene	ND		50.0	47.72		ug/L		95	61 - 148
tert-Butylbenzene	ND		50.0	46.12		ug/L		92	70 - 138
Tetrachloroethene	ND		50.0	54.39		ug/L		109	72 - 145
Toluene	ND		50.0	45.33		ug/L		91	75 - 136
trans-1,2-Dichloroethene	ND		50.0	54.09		ug/L		108	66 - 143
trans-1,3-Dichloropropene	ND		50.0	42.29		ug/L		85	59 - 135
Trichloroethene	ND		50.0	67.86		ug/L		136	73 - 144
Trichlorofluoromethane	ND		50.0	58.16		ug/L		116	58 - 139
Vinyl chloride	ND		50.0	40.97		ug/L		82	56 - 129
Xylenes, Total	ND		150	143.1		ug/L		95	74 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	125		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
Toluene-d8 (Surr)	89		70 - 130

Lab Sample ID: 490-8478-C-7 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 27823

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	56.92		ug/L		114	73 - 141	3	16
1,1,1-Trichloroethane	ND		50.0	57.96		ug/L		116	76 - 149	9	17
1,1,1,2,2-Tetrachloroethane	ND		50.0	44.05		ug/L		88	56 - 143	0	20
1,1,2-Trichloroethane	ND		50.0	46.71		ug/L		93	74 - 134	1	15
1,1-Dichloroethane	ND		50.0	44.00		ug/L		88	71 - 139	17	17
Diisopropyl ether	ND		50.0	39.06		ug/L		78	10 - 200	7	50
1,1-Dichloroethene	ND	*	50.0	56.63		ug/L		113	70 - 142	12	17
1,1-Dichloropropene	ND		50.0	48.29		ug/L		97	76 - 139	12	17
1,2,3-Trichlorobenzene	ND		50.0	54.54		ug/L		109	55 - 138	10	25
1,2,3-Trichloropropane	ND		50.0	46.25		ug/L		93	53 - 144	2	19
1,2,4-Trichlorobenzene	ND		50.0	51.45		ug/L		103	60 - 136	5	19
1,2,4-Trimethylbenzene	ND		50.0	44.38		ug/L		89	69 - 136	3	16
1,2-Dibromo-3-Chloropropane	ND		50.0	53.58		ug/L		107	52 - 126	2	24
1,2-Dibromoethane (EDB)	ND		50.0	51.74		ug/L		103	75 - 137	1	15

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8478-C-7 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 27823

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichlorobenzene	ND		50.0	48.95		ug/L		98	79 - 128	1	15
1,2-Dichloroethane	ND		50.0	53.63		ug/L		107	64 - 136	8	17
1,2-Dichloropropane	ND		50.0	40.43	F	ug/L		81	67 - 131	19	17
1,3,5-Trimethylbenzene	ND		50.0	45.00		ug/L		90	69 - 139	1	17
1,3-Dichlorobenzene	ND		50.0	46.91		ug/L		94	77 - 131	3	15
1,3-Dichloropropane	ND		50.0	45.56		ug/L		91	72 - 134	1	14
1,4-Dichlorobenzene	ND		50.0	46.59		ug/L		93	78 - 126	2	15
2,2-Dichloropropane	ND		50.0	45.91		ug/L		92	37 - 175	15	18
2-Butanone (MEK)	ND		250	185.5		ug/L		74	50 - 138	19	19
2-Chlorotoluene	ND		50.0	44.23		ug/L		88	67 - 138	4	17
2-Hexanone	ND		250	230.5		ug/L		92	50 - 150	3	15
4-Chlorotoluene	ND		50.0	44.93		ug/L		90	69 - 138	4	18
4-Methyl-2-pentanone (MIBK)	ND		250	163.8		ug/L		66	50 - 147	15	17
Acetone	ND		250	175.3		ug/L		70	45 - 141	12	21
Benzene	ND		50.0	49.35		ug/L		99	75 - 133	6	17
Bromobenzene	ND		50.0	44.04		ug/L		88	60 - 138	1	20
Bromochloromethane	ND		50.0	54.51	F	ug/L		109	67 - 139	20	17
Bromodichloromethane	ND		50.0	55.93		ug/L		112	70 - 140	8	18
Bromoform	ND		50.0	60.75		ug/L		122	42 - 147	1	16
Bromomethane	ND		50.0	39.46		ug/L		79	16 - 163	9	50
Carbon disulfide	ND		50.0	40.75		ug/L		81	48 - 152	13	21
Carbon tetrachloride	ND		50.0	64.25		ug/L		129	62 - 164	9	19
Chlorobenzene	ND		50.0	49.04		ug/L		98	80 - 129	1	14
Chlorodibromomethane	ND		50.0	58.15		ug/L		116	66 - 140	3	15
Chloroethane	ND		50.0	38.80		ug/L		78	58 - 137	11	20
Chloroform	ND		50.0	49.81		ug/L		100	66 - 138	17	18
Chloromethane	ND		50.0	36.58		ug/L		73	10 - 169	1	31
cis-1,2-Dichloroethene	ND		50.0	41.31	F	ug/L		83	68 - 138	20	17
cis-1,3-Dichloropropene	ND		50.0	40.43	F	ug/L		81	71 - 141	21	15
Dibromomethane	ND		50.0	52.74		ug/L		105	58 - 140	2	16
Dichlorodifluoromethane	ND		50.0	33.84		ug/L		68	40 - 127	6	18
Ethylbenzene	ND		50.0	48.31		ug/L		97	79 - 139	2	15
Hexachlorobutadiene	ND		50.0	33.00		ug/L		66	45 - 155	10	23
Isopropylbenzene	ND		50.0	50.72		ug/L		101	80 - 153	3	16
Methyl tert-butyl ether	ND		50.0	44.46		ug/L		89	66 - 141	11	16
Methylene Chloride	ND		50.0	50.01		ug/L		100	64 - 139	9	17
Naphthalene	ND		50.0	59.48		ug/L		119	55 - 140	1	26
n-Butylbenzene	ND		50.0	38.45		ug/L		77	66 - 141	5	18
N-Propylbenzene	ND		50.0	43.34		ug/L		87	69 - 142	1	17
p-Isopropyltoluene	ND		50.0	44.09		ug/L		88	71 - 137	4	16
sec-Butylbenzene	ND		50.0	43.01		ug/L		86	73 - 138	5	16
Styrene	ND		50.0	49.68		ug/L		99	61 - 148	4	24
tert-Butylbenzene	ND		50.0	46.68		ug/L		93	70 - 138	1	16
Tetrachloroethene	ND		50.0	53.57		ug/L		107	72 - 145	2	16
Toluene	ND		50.0	41.26		ug/L		83	75 - 136	9	15
trans-1,2-Dichloroethene	ND		50.0	47.59		ug/L		95	66 - 143	13	16
trans-1,3-Dichloropropene	ND		50.0	43.68		ug/L		87	59 - 135	3	14
Trichloroethene	ND		50.0	60.60		ug/L		121	73 - 144	11	17
Trichlorofluoromethane	ND		50.0	52.53		ug/L		105	58 - 139	10	18
Vinyl chloride	ND		50.0	36.00		ug/L		72	56 - 129	13	17

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8478-C-7 MSD

Matrix: Water

Analysis Batch: 27823

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	ND		150	147.3		ug/L		98	74 - 141	3	15
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	112		70 - 130								
4-Bromofluorobenzene (Surr)	92		70 - 130								
Dibromofluoromethane (Surr)	100		70 - 130								
Toluene-d8 (Surr)	82		70 - 130								

Lab Sample ID: MB 490-28589/4

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/16/12 22:53	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/16/12 22:53	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/16/12 22:53	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/16/12 22:53	1
1,1-Dichloroethane	ND		1.00	ug/L			10/16/12 22:53	1
Diisopropyl ether	ND		2.00	ug/L			10/16/12 22:53	1
1,1-Dichloroethene	ND		1.00	ug/L			10/16/12 22:53	1
1,1-Dichloropropene	ND		1.00	ug/L			10/16/12 22:53	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/16/12 22:53	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/16/12 22:53	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/16/12 22:53	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,2-Dichloroethane	ND		1.00	ug/L			10/16/12 22:53	1
1,2-Dichloropropane	ND		1.00	ug/L			10/16/12 22:53	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
1,3-Dichloropropane	ND		1.00	ug/L			10/16/12 22:53	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
2,2-Dichloropropane	ND		1.00	ug/L			10/16/12 22:53	1
2-Butanone (MEK)	ND		50.0	ug/L			10/16/12 22:53	1
2-Chlorotoluene	ND		1.00	ug/L			10/16/12 22:53	1
2-Hexanone	ND		10.0	ug/L			10/16/12 22:53	1
4-Chlorotoluene	ND		1.00	ug/L			10/16/12 22:53	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			10/16/12 22:53	1
Acetone	ND		50.0	ug/L			10/16/12 22:53	1
Benzene	ND		1.00	ug/L			10/16/12 22:53	1
Bromobenzene	ND		1.00	ug/L			10/16/12 22:53	1
Bromochloromethane	ND		1.00	ug/L			10/16/12 22:53	1
Bromodichloromethane	ND		1.00	ug/L			10/16/12 22:53	1
Bromoform	ND		1.00	ug/L			10/16/12 22:53	1
Bromomethane	ND		1.00	ug/L			10/16/12 22:53	1
Carbon disulfide	2.066		1.00	ug/L			10/16/12 22:53	1
Carbon tetrachloride	ND		1.00	ug/L			10/16/12 22:53	1

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-28589/4

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.00	ug/L			10/16/12 22:53	1
Chlorodibromomethane	ND		1.00	ug/L			10/16/12 22:53	1
Chloroethane	ND		1.00	ug/L			10/16/12 22:53	1
Chloroform	ND		1.00	ug/L			10/16/12 22:53	1
Chloromethane	ND		1.00	ug/L			10/16/12 22:53	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/16/12 22:53	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/16/12 22:53	1
Dibromomethane	ND		1.00	ug/L			10/16/12 22:53	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/16/12 22:53	1
Ethylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
Hexachlorobutadiene	ND		2.00	ug/L			10/16/12 22:53	1
Isopropylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/16/12 22:53	1
Methylene Chloride	ND		5.00	ug/L			10/16/12 22:53	1
Naphthalene	ND		5.00	ug/L			10/16/12 22:53	1
n-Butylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
N-Propylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
p-Isopropyltoluene	ND		1.00	ug/L			10/16/12 22:53	1
sec-Butylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
Styrene	ND		1.00	ug/L			10/16/12 22:53	1
tert-Butylbenzene	ND		1.00	ug/L			10/16/12 22:53	1
Tetrachloroethene	ND		1.00	ug/L			10/16/12 22:53	1
Toluene	ND		1.00	ug/L			10/16/12 22:53	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/16/12 22:53	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/16/12 22:53	1
Trichloroethene	ND		1.00	ug/L			10/16/12 22:53	1
Trichlorofluoromethane	ND		1.00	ug/L			10/16/12 22:53	1
Vinyl chloride	ND		1.00	ug/L			10/16/12 22:53	1
Xylenes, Total	ND		3.00	ug/L			10/16/12 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		70 - 130		10/16/12 22:53	1
4-Bromofluorobenzene (Surr)	89		70 - 130		10/16/12 22:53	1
Dibromofluoromethane (Surr)	106		70 - 130		10/16/12 22:53	1
Toluene-d8 (Surr)	104		70 - 130		10/16/12 22:53	1

Lab Sample ID: LCS 490-28589/3

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	23.27		ug/L		116	74 - 135
1,1,1-Trichloroethane	20.0	26.33		ug/L		132	78 - 135
1,1,2,2-Tetrachloroethane	20.0	16.44		ug/L		82	69 - 131
1,1,2-Trichloroethane	20.0	18.43		ug/L		92	80 - 124
1,1-Dichloroethane	20.0	19.08		ug/L		95	78 - 125
Diisopropyl ether	20.0	15.96		ug/L		80	61 - 142
1,1-Dichloroethene	20.0	25.62	*	ug/L		128	79 - 124
1,1-Dichloropropene	20.0	19.62		ug/L		98	80 - 122

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-28589/3

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	20.0	28.87	*	ug/L		144	62 - 133
1,2,3-Trichloropropane	20.0	20.32		ug/L		102	70 - 131
1,2,4-Trichlorobenzene	20.0	25.30		ug/L		126	63 - 133
1,2,4-Trimethylbenzene	20.0	21.29		ug/L		106	77 - 126
1,2-Dibromo-3-Chloropropane	20.0	20.79		ug/L		104	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.32		ug/L		102	80 - 129
1,2-Dichlorobenzene	20.0	23.11		ug/L		116	80 - 121
1,2-Dichloroethane	20.0	26.25	*	ug/L		131	77 - 121
1,2-Dichloropropane	20.0	17.10		ug/L		85	75 - 120
1,3,5-Trimethylbenzene	20.0	21.12		ug/L		106	77 - 127
1,3-Dichlorobenzene	20.0	22.10		ug/L		110	80 - 122
1,3-Dichloropropane	20.0	17.60		ug/L		88	80 - 125
1,4-Dichlorobenzene	20.0	20.52		ug/L		103	80 - 120
2,2-Dichloropropane	20.0	25.99		ug/L		130	43 - 161
2-Butanone (MEK)	100	89.72		ug/L		90	62 - 133
2-Chlorotoluene	20.0	18.89		ug/L		94	75 - 126
2-Hexanone	100	82.70		ug/L		83	60 - 142
4-Chlorotoluene	20.0	19.83		ug/L		99	75 - 130
4-Methyl-2-pentanone (MIBK)	100	79.45		ug/L		79	60 - 137
Acetone	100	83.98		ug/L		84	54 - 145
Benzene	20.0	19.70		ug/L		98	80 - 121
Bromobenzene	20.0	19.05		ug/L		95	68 - 130
Bromochloromethane	20.0	25.57		ug/L		128	78 - 129
Bromodichloromethane	20.0	25.78		ug/L		129	75 - 129
Bromoform	20.0	26.16		ug/L		131	46 - 145
Bromomethane	20.0	21.73		ug/L		109	41 - 150
Carbon disulfide	20.0	19.72		ug/L		99	77 - 126
Carbon tetrachloride	20.0	28.85		ug/L		144	64 - 147
Chlorobenzene	20.0	19.76		ug/L		99	80 - 120
Chlorodibromomethane	20.0	22.64		ug/L		113	69 - 133
Chloroethane	20.0	19.16		ug/L		96	72 - 120
Chloroform	20.0	23.11		ug/L		116	73 - 129
Chloromethane	20.0	19.00		ug/L		95	12 - 150
cis-1,2-Dichloroethene	20.0	19.90		ug/L		99	76 - 125
cis-1,3-Dichloropropene	20.0	19.92		ug/L		100	74 - 140
Dibromomethane	20.0	24.89		ug/L		124	71 - 125
Dichlorodifluoromethane	20.0	23.53		ug/L		118	37 - 127
Ethylbenzene	20.0	18.85		ug/L		94	80 - 130
Hexachlorobutadiene	20.0	23.70		ug/L		119	49 - 146
Isopropylbenzene	20.0	21.46		ug/L		107	80 - 141
Methyl tert-butyl ether	20.0	21.75		ug/L		109	72 - 133
Methylene Chloride	20.0	21.00		ug/L		105	79 - 123
Naphthalene	20.0	23.85		ug/L		119	62 - 138
n-Butylbenzene	20.0	19.05		ug/L		95	68 - 132
N-Propylbenzene	20.0	19.33		ug/L		97	75 - 129
p-Isopropyltoluene	20.0	21.57		ug/L		108	75 - 128
sec-Butylbenzene	20.0	20.76		ug/L		104	76 - 128
Styrene	20.0	20.78		ug/L		104	80 - 127
tert-Butylbenzene	20.0	22.18		ug/L		111	76 - 126
Tetrachloroethene	20.0	21.39		ug/L		107	80 - 126

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-28589/3

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	20.0	19.39		ug/L		97	80 - 126
trans-1,2-Dichloroethene	20.0	20.98		ug/L		105	79 - 126
trans-1,3-Dichloropropene	20.0	18.66		ug/L		93	63 - 134
Trichloroethene	20.0	26.74	*	ug/L		134	80 - 123
Trichlorofluoromethane	20.0	25.61	*	ug/L		128	65 - 124
Vinyl chloride	20.0	16.73		ug/L		84	68 - 120
Xylenes, Total	60.0	61.85		ug/L		103	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	128		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 490-8494-B-1 MS

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	56.17		ug/L		112	73 - 141
1,1,1-Trichloroethane	ND		50.0	63.83		ug/L		128	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	37.50		ug/L		75	56 - 143
1,1,2-Trichloroethane	ND		50.0	43.05		ug/L		86	74 - 134
1,1-Dichloroethane	ND		50.0	46.98		ug/L		94	71 - 139
Diisopropyl ether	ND		50.0	36.40		ug/L		73	10 - 200
1,1-Dichloroethene	ND	*	50.0	55.66		ug/L		111	70 - 142
1,1-Dichloropropene	ND		50.0	48.41		ug/L		97	76 - 139
1,2,3-Trichlorobenzene	ND	*	50.0	57.41		ug/L		115	55 - 138
1,2,3-Trichloropropane	ND		50.0	43.84		ug/L		88	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	56.90		ug/L		114	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	46.84		ug/L		93	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	51.56		ug/L		103	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	47.49		ug/L		95	75 - 137
1,2-Dichlorobenzene	ND		50.0	49.17		ug/L		98	79 - 128
1,2-Dichloroethane	ND	*	50.0	59.98		ug/L		120	64 - 136
1,2-Dichloropropane	ND		50.0	38.91		ug/L		78	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	47.65		ug/L		95	69 - 139
1,3-Dichlorobenzene	ND		50.0	48.22		ug/L		96	77 - 131
1,3-Dichloropropane	ND		50.0	40.84		ug/L		82	72 - 134
1,4-Dichlorobenzene	ND		50.0	45.89		ug/L		92	78 - 126
2,2-Dichloropropane	ND		50.0	51.51		ug/L		103	37 - 175
2-Butanone (MEK)	ND		250	188.2		ug/L		75	50 - 138
2-Chlorotoluene	ND		50.0	45.02		ug/L		90	67 - 138
2-Hexanone	ND		250	178.4		ug/L		71	50 - 150
4-Chlorotoluene	ND		50.0	46.09		ug/L		92	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	178.0		ug/L		71	50 - 147
Acetone	ND		250	170.1		ug/L		68	45 - 141
Benzene	ND		50.0	46.17		ug/L		92	75 - 133
Bromobenzene	ND		50.0	42.61		ug/L		85	60 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8494-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 28589

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromochloromethane	ND		50.0	59.78		ug/L		120	67 - 139
Bromodichloromethane	ND		50.0	61.13		ug/L		122	70 - 140
Bromoform	ND		50.0	61.67		ug/L		123	42 - 147
Bromomethane	ND		50.0	39.18		ug/L		78	16 - 163
Carbon disulfide	1.85	B	50.0	41.55		ug/L		79	48 - 152
Carbon tetrachloride	ND		50.0	71.87		ug/L		144	62 - 164
Chlorobenzene	ND		50.0	46.90		ug/L		94	80 - 129
Chlorodibromomethane	ND		50.0	57.03		ug/L		114	66 - 140
Chloroethane	ND		50.0	39.06		ug/L		78	58 - 137
Chloroform	ND		50.0	55.29		ug/L		111	66 - 138
Chloromethane	ND		50.0	29.18		ug/L		58	10 - 169
cis-1,2-Dichloroethene	ND		50.0	43.63		ug/L		87	68 - 138
cis-1,3-Dichloropropene	ND		50.0	49.13		ug/L		98	71 - 141
Dibromomethane	ND		50.0	52.73		ug/L		105	58 - 140
Dichlorodifluoromethane	ND		50.0	22.04		ug/L		44	40 - 127
Ethylbenzene	ND		50.0	46.61		ug/L		93	79 - 139
Hexachlorobutadiene	ND		50.0	45.88		ug/L		90	45 - 155
Isopropylbenzene	ND		50.0	51.20		ug/L		102	80 - 153
Methyl tert-butyl ether	ND		50.0	48.33		ug/L		97	66 - 141
Methylene Chloride	ND		50.0	47.60		ug/L		95	64 - 139
Naphthalene	ND		50.0	56.78		ug/L		111	55 - 140
n-Butylbenzene	ND		50.0	45.49		ug/L		91	66 - 141
N-Propylbenzene	ND		50.0	45.28		ug/L		91	69 - 142
p-Isopropyltoluene	ND		50.0	49.14		ug/L		98	71 - 137
sec-Butylbenzene	ND		50.0	48.16		ug/L		96	73 - 138
Styrene	ND		50.0	48.79		ug/L		98	61 - 148
tert-Butylbenzene	ND		50.0	51.77		ug/L		104	70 - 138
Tetrachloroethene	ND		50.0	53.33		ug/L		107	72 - 145
Toluene	ND		50.0	46.10		ug/L		92	75 - 136
trans-1,2-Dichloroethene	ND		50.0	49.08		ug/L		98	66 - 143
trans-1,3-Dichloropropene	ND		50.0	42.98		ug/L		86	59 - 135
Trichloroethene	ND	*	50.0	63.19		ug/L		126	73 - 144
Trichlorofluoromethane	ND	*	50.0	55.65		ug/L		111	58 - 139
Vinyl chloride	ND		50.0	30.46		ug/L		61	56 - 129
Xylenes, Total	ND		150	148.1		ug/L		99	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	129		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-8494-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 28589

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	59.63		ug/L		119	73 - 141	6	16
1,1,1-Trichloroethane	ND		50.0	69.69		ug/L		139	76 - 149	9	17

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8494-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 28589

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1,2,2-Tetrachloroethane	ND		50.0	38.53		ug/L		77	56 - 143	3	20
1,1,2-Trichloroethane	ND		50.0	45.39		ug/L		91	74 - 134	5	15
1,1-Dichloroethane	ND		50.0	50.86		ug/L		102	71 - 139	8	17
Diisopropyl ether	ND		50.0	40.51		ug/L		81	10 - 200	11	50
1,1-Dichloroethene	ND	*	50.0	66.33		ug/L		133	70 - 142	17	17
1,1-Dichloropropene	ND		50.0	52.64		ug/L		105	76 - 139	8	17
1,2,3-Trichlorobenzene	ND	*	50.0	66.84		ug/L		134	55 - 138	15	25
1,2,3-Trichloropropane	ND		50.0	47.54		ug/L		95	53 - 144	8	19
1,2,4-Trichlorobenzene	ND		50.0	62.59		ug/L		125	60 - 136	10	19
1,2,4-Trimethylbenzene	ND		50.0	49.74		ug/L		99	69 - 136	6	16
1,2-Dibromo-3-Chloropropane	ND		50.0	55.84		ug/L		112	52 - 126	8	24
1,2-Dibromoethane (EDB)	ND		50.0	50.32		ug/L		101	75 - 137	6	15
1,2-Dichlorobenzene	ND		50.0	52.87		ug/L		106	79 - 128	7	15
1,2-Dichloroethane	ND	*	50.0	63.74		ug/L		127	64 - 136	6	17
1,2-Dichloropropane	ND		50.0	42.41		ug/L		85	67 - 131	9	17
1,3,5-Trimethylbenzene	ND		50.0	50.86		ug/L		102	69 - 139	7	17
1,3-Dichlorobenzene	ND		50.0	50.59		ug/L		101	77 - 131	5	15
1,3-Dichloropropane	ND		50.0	43.81		ug/L		88	72 - 134	7	14
1,4-Dichlorobenzene	ND		50.0	48.19		ug/L		96	78 - 126	5	15
2,2-Dichloropropane	ND		50.0	56.17		ug/L		112	37 - 175	9	18
2-Butanone (MEK)	ND		250	220.4		ug/L		88	50 - 138	16	19
2-Chlorotoluene	ND		50.0	47.54		ug/L		95	67 - 138	5	17
2-Hexanone	ND		250	195.6		ug/L		78	50 - 150	9	15
4-Chlorotoluene	ND		50.0	48.59		ug/L		97	69 - 138	5	18
4-Methyl-2-pentanone (MIBK)	ND		250	189.7		ug/L		76	50 - 147	6	17
Acetone	ND		250	190.1		ug/L		76	45 - 141	11	21
Benzene	ND		50.0	49.66		ug/L		99	75 - 133	7	17
Bromobenzene	ND		50.0	45.63		ug/L		91	60 - 138	7	20
Bromochloromethane	ND		50.0	62.93		ug/L		126	67 - 139	5	17
Bromodichloromethane	ND		50.0	63.49		ug/L		127	70 - 140	4	18
Bromoform	ND		50.0	65.93		ug/L		132	42 - 147	7	16
Bromomethane	ND		50.0	52.54		ug/L		105	16 - 163	29	50
Carbon disulfide	1.85	B	50.0	48.92		ug/L		94	48 - 152	16	21
Carbon tetrachloride	ND		50.0	77.90		ug/L		156	62 - 164	8	19
Chlorobenzene	ND		50.0	50.28		ug/L		101	80 - 129	7	14
Chlorodibromomethane	ND		50.0	61.84		ug/L		124	66 - 140	8	15
Chloroethane	ND		50.0	47.58		ug/L		95	58 - 137	20	20
Chloroform	ND		50.0	59.82		ug/L		120	66 - 138	8	18
Chloromethane	ND		50.0	44.27	F	ug/L		89	10 - 169	41	31
cis-1,2-Dichloroethene	ND		50.0	47.23		ug/L		94	68 - 138	8	17
cis-1,3-Dichloropropene	ND		50.0	53.04		ug/L		106	71 - 141	8	15
Dibromomethane	ND		50.0	56.68		ug/L		113	58 - 140	7	16
Dichlorodifluoromethane	ND		50.0	51.70	F	ug/L		103	40 - 127	80	18
Ethylbenzene	ND		50.0	49.88		ug/L		99	79 - 139	7	15
Hexachlorobutadiene	ND		50.0	51.67		ug/L		102	45 - 155	12	23
Isopropylbenzene	ND		50.0	54.28		ug/L		109	80 - 153	6	16
Methyl tert-butyl ether	ND		50.0	52.63		ug/L		105	66 - 141	9	16
Methylene Chloride	ND		50.0	53.58		ug/L		107	64 - 139	12	17
Naphthalene	ND		50.0	58.35		ug/L		114	55 - 140	3	26
n-Butylbenzene	ND		50.0	49.46		ug/L		99	66 - 141	8	18

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8494-C-1 MSD

Matrix: Water

Analysis Batch: 28589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-Propylbenzene	ND		50.0	47.30		ug/L		95	69 - 142	4	17
p-Isopropyltoluene	ND		50.0	52.35		ug/L		105	71 - 137	6	16
sec-Butylbenzene	ND		50.0	50.11		ug/L		100	73 - 138	4	16
Styrene	ND		50.0	52.52		ug/L		105	61 - 148	7	24
tert-Butylbenzene	ND		50.0	54.05		ug/L		108	70 - 138	4	16
Tetrachloroethene	ND		50.0	58.40		ug/L		117	72 - 145	9	16
Toluene	ND		50.0	49.64		ug/L		99	75 - 136	7	15
trans-1,2-Dichloroethene	ND		50.0	55.91		ug/L		112	66 - 143	13	16
trans-1,3-Dichloropropene	ND		50.0	45.76		ug/L		92	59 - 135	6	14
Trichloroethene	ND	*	50.0	65.63		ug/L		131	73 - 144	4	17
Trichlorofluoromethane	ND	*	50.0	66.88		ug/L		134	58 - 139	18	18
Vinyl chloride	ND		50.0	41.80	F	ug/L		84	56 - 129	31	17
Xylenes, Total	ND		150	155.5		ug/L		104	74 - 141	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	128		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-26888/1-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26888

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
1,2-Dichlorobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
1,3-Dichlorobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
1,4-Dichlorobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
1-Methylnaphthalene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4-Dichlorophenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4-Dimethylphenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4-Dinitrophenol	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,4-Dinitrotoluene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2,6-Dinitrotoluene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Chloronaphthalene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Chlorophenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Methylnaphthalene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Methylphenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Nitroaniline	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
2-Nitrophenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
3 & 4 Methylphenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
3-Nitroaniline	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26888/1-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26888

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4-Chloroaniline	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4-Nitroaniline	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
4-Nitrophenol	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Acenaphthylene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Acenaphthene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Benzo[a]anthracene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Benzo[a]pyrene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Benzo[b]fluoranthene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Benzo[k]fluoranthene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Anthracene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Butyl benzyl phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Carbazole	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Chrysene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Cresols	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Dibenzofuran	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Diethyl phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Dimethyl phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Di-n-butyl phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Di-n-octyl phthalate	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Fluoranthene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Fluorene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Hexachlorobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Hexachlorobutadiene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Hexachloroethane	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Isophorone	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Naphthalene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Nitrobenzene	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Pentachlorophenol	ND		25.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Phenanthrene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1
Phenol	ND		10.0	ug/L		10/10/12 07:49	10/13/12 00:25	1
Pyrene	ND		2.00	ug/L		10/10/12 07:49	10/13/12 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		10 - 120	10/10/12 07:49	10/13/12 00:25	1
2-Fluorobiphenyl (Surr)	60		29 - 120	10/10/12 07:49	10/13/12 00:25	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-26888/1-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26888

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	33		10 - 120	10/10/12 07:49	10/13/12 00:25	1
Nitrobenzene-d5 (Surr)	57		27 - 120	10/10/12 07:49	10/13/12 00:25	1
Phenol-d5 (Surr)	21		10 - 120	10/10/12 07:49	10/13/12 00:25	1
Terphenyl-d14 (Surr)	105		13 - 120	10/10/12 07:49	10/13/12 00:25	1

Lab Sample ID: LCS 490-26888/2-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,2,4-Trichlorobenzene	50.0	32.98		ug/L		66	30 - 120
1,2-Dichlorobenzene	50.0	30.58		ug/L		61	32 - 120
1,3-Dichlorobenzene	50.0	30.45		ug/L		61	32 - 120
1,4-Dichlorobenzene	50.0	29.96		ug/L		60	31 - 120
1-Methylnaphthalene	50.0	40.52		ug/L		81	36 - 120
2,4,5-Trichlorophenol	50.0	51.39		ug/L		103	40 - 129
2,4,6-Trichlorophenol	50.0	51.46		ug/L		103	39 - 135
2,4-Dichlorophenol	50.0	48.91		ug/L		98	38 - 120
2,4-Dimethylphenol	50.0	50.66		ug/L		101	21 - 126
2,4-Dinitrophenol	50.0	45.23		ug/L		90	20 - 150
2,4-Dinitrotoluene	50.0	53.49		ug/L		107	46 - 132
2,6-Dinitrotoluene	50.0	56.62		ug/L		113	54 - 128
2-Chloronaphthalene	50.0	43.00		ug/L		86	39 - 120
2-Chlorophenol	50.0	41.80		ug/L		84	40 - 120
2-Methylnaphthalene	50.0	40.04		ug/L		80	31 - 120
2-Methylphenol	50.0	45.74		ug/L		91	38 - 120
2-Nitroaniline	50.0	59.40		ug/L		119	46 - 131
2-Nitrophenol	50.0	50.23		ug/L		100	32 - 120
3,3'-Dichlorobenzidine	50.0	46.40		ug/L		93	46 - 129
3 & 4 Methylphenol	50.0	42.27		ug/L		85	33 - 120
3-Nitroaniline	50.0	57.85		ug/L		116	54 - 121
4,6-Dinitro-2-methylphenol	50.0	49.82		ug/L		100	19 - 150
4-Bromophenyl phenyl ether	50.0	53.11		ug/L		106	47 - 127
4-Chloro-3-methylphenol	50.0	52.99		ug/L		106	44 - 120
4-Chlorophenyl phenyl ether	50.0	52.40		ug/L		105	50 - 120
4-Chloroaniline	50.0	51.91		ug/L		104	44 - 120
4-Nitroaniline	50.0	52.73		ug/L		105	55 - 123
4-Nitrophenol	50.0	38.87		ug/L		78	10 - 120
Acenaphthylene	50.0	48.03		ug/L		96	48 - 120
Acenaphthene	50.0	46.40		ug/L		93	46 - 120
Benzo[a]anthracene	50.0	51.82		ug/L		104	57 - 120
Benzo[a]pyrene	50.0	54.17		ug/L		108	57 - 124
Benzo[b]fluoranthene	50.0	50.80		ug/L		102	51 - 125
Benzo[g,h,i]perylene	50.0	42.63		ug/L		85	51 - 123
Benzo[k]fluoranthene	50.0	54.30		ug/L		109	51 - 120
Anthracene	50.0	51.99		ug/L		104	58 - 130
Bis(2-chloroethoxy)methane	50.0	51.39		ug/L		103	44 - 120
Bis(2-chloroethyl)ether	50.0	40.99		ug/L		82	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	56.96		ug/L		114	47 - 138

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-26888/2-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
bis (2-chloroisopropyl) ether	50.0	44.87		ug/L		90	44 - 120	
Butyl benzyl phthalate	50.0	56.58		ug/L		113	51 - 146	
Carbazole	50.0	55.39		ug/L		111	54 - 123	
Chrysene	50.0	49.54		ug/L		99	55 - 120	
Cresols	100	88.01		ug/L		88	33 - 120	
Dibenz(a,h)anthracene	50.0	44.69		ug/L		89	50 - 125	
Dibenzofuran	50.0	50.72		ug/L		101	50 - 120	
Diethyl phthalate	50.0	51.57		ug/L		103	54 - 128	
Dimethyl phthalate	50.0	50.09		ug/L		100	53 - 127	
Di-n-butyl phthalate	50.0	51.62		ug/L		103	54 - 140	
Di-n-octyl phthalate	50.0	59.31		ug/L		119	50 - 142	
Fluoranthene	50.0	50.07		ug/L		100	56 - 120	
Fluorene	50.0	51.44		ug/L		103	52 - 120	
Hexachlorobenzene	50.0	54.12		ug/L		108	48 - 131	
Hexachlorobutadiene	50.0	35.60		ug/L		71	28 - 120	
Hexachlorocyclopentadiene	50.0	33.21		ug/L		66	17 - 120	
Hexachloroethane	50.0	28.52		ug/L		57	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	45.13		ug/L		90	54 - 125	
Isophorone	50.0	49.04		ug/L		98	47 - 120	
Naphthalene	50.0	41.34		ug/L		83	37 - 120	
Nitrobenzene	50.0	50.43		ug/L		101	36 - 120	
N-Nitrosodi-n-propylamine	50.0	52.81		ug/L		106	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	65.89		ug/L		132	58 - 149	
Pentachlorophenol	50.0	50.84		ug/L		102	21 - 150	
Phenanthrene	50.0	50.63		ug/L		101	56 - 120	
Phenol	50.0	20.72		ug/L		41	14 - 120	
Pyrene	50.0	54.45		ug/L		109	53 - 129	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	92		10 - 120
2-Fluorobiphenyl (Surr)	69		29 - 120
2-Fluorophenol (Surr)	40		10 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14 (Surr)	97		13 - 120

Lab Sample ID: LCSD 490-26888/3-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
1,2,4-Trichlorobenzene	50.0	33.63		ug/L		67	30 - 120	2	35	
1,2-Dichlorobenzene	50.0	31.30		ug/L		63	32 - 120	2	42	
1,3-Dichlorobenzene	50.0	31.35		ug/L		63	32 - 120	3	42	
1,4-Dichlorobenzene	50.0	28.82		ug/L		58	31 - 120	4	44	
1-Methylnaphthalene	50.0	38.62		ug/L		77	36 - 120	5	36	
2,4,5-Trichlorophenol	50.0	49.32		ug/L		99	40 - 129	4	34	
2,4,6-Trichlorophenol	50.0	48.91		ug/L		98	39 - 135	5	40	
2,4-Dichlorophenol	50.0	45.64		ug/L		91	38 - 120	7	30	

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26888/3-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2,4-Dimethylphenol	50.0	47.15		ug/L		94	21 - 126	7	48	
2,4-Dinitrophenol	50.0	46.34		ug/L		93	20 - 150	2	31	
2,4-Dinitrotoluene	50.0	51.47		ug/L		103	46 - 132	4	26	
2,6-Dinitrotoluene	50.0	52.62		ug/L		105	54 - 128	7	29	
2-Chloronaphthalene	50.0	40.77		ug/L		82	39 - 120	5	36	
2-Chlorophenol	50.0	40.04		ug/L		80	40 - 120	4	46	
2-Methylnaphthalene	50.0	38.91		ug/L		78	31 - 120	3	35	
2-Methylphenol	50.0	44.49		ug/L		89	38 - 120	3	32	
2-Nitroaniline	50.0	54.34		ug/L		109	46 - 131	9	24	
2-Nitrophenol	50.0	47.48		ug/L		95	32 - 120	6	31	
3,3'-Dichlorobenzidine	50.0	45.33		ug/L		91	46 - 129	2	30	
3 & 4 Methylphenol	50.0	38.81		ug/L		78	33 - 120	9	34	
3-Nitroaniline	50.0	53.66		ug/L		107	54 - 121	8	26	
4,6-Dinitro-2-methylphenol	50.0	48.10		ug/L		96	19 - 150	4	34	
4-Bromophenyl phenyl ether	50.0	51.15		ug/L		102	47 - 127	4	29	
4-Chloro-3-methylphenol	50.0	48.87		ug/L		98	44 - 120	8	22	
4-Chlorophenyl phenyl ether	50.0	48.45		ug/L		97	50 - 120	8	29	
4-Chloroaniline	50.0	50.88		ug/L		102	44 - 120	2	26	
4-Nitroaniline	50.0	48.73		ug/L		97	55 - 123	8	26	
4-Nitrophenol	50.0	ND *		ug/L		50	10 - 120	44	38	
Acenaphthylene	50.0	45.07		ug/L		90	48 - 120	6	31	
Acenaphthene	50.0	43.45		ug/L		87	46 - 120	7	31	
Benzo[a]anthracene	50.0	50.82		ug/L		102	57 - 120	2	27	
Benzo[a]pyrene	50.0	52.93		ug/L		106	57 - 124	2	27	
Benzo[b]fluoranthene	50.0	49.23		ug/L		98	51 - 125	3	39	
Benzo[g,h,i]perylene	50.0	41.91		ug/L		84	51 - 123	2	27	
Benzo[k]fluoranthene	50.0	53.07		ug/L		106	51 - 120	2	32	
Anthracene	50.0	49.96		ug/L		100	58 - 130	4	28	
Bis(2-chloroethoxy)methane	50.0	49.52		ug/L		99	44 - 120	4	31	
Bis(2-chloroethyl)ether	50.0	40.83		ug/L		82	47 - 120	0	38	
Bis(2-ethylhexyl) phthalate	50.0	56.93		ug/L		114	47 - 138	0	28	
bis (2-chloroisopropyl) ether	50.0	43.16		ug/L		86	44 - 120	4	36	
Butyl benzyl phthalate	50.0	56.15		ug/L		112	51 - 146	1	31	
Carbazole	50.0	54.45		ug/L		109	54 - 123	2	29	
Chrysene	50.0	48.72		ug/L		97	55 - 120	2	27	
Cresols	100	83.30		ug/L		83	33 - 120	5	34	
Dibenz(a,h)anthracene	50.0	43.49		ug/L		87	50 - 125	3	28	
Dibenzofuran	50.0	46.82		ug/L		94	50 - 120	8	29	
Diethyl phthalate	50.0	49.01		ug/L		98	54 - 128	5	28	
Dimethyl phthalate	50.0	46.58		ug/L		93	53 - 127	7	27	
Di-n-butyl phthalate	50.0	50.69		ug/L		101	54 - 140	2	27	
Di-n-octyl phthalate	50.0	57.84		ug/L		116	50 - 142	2	28	
Fluoranthene	50.0	49.20		ug/L		98	56 - 120	2	28	
Fluorene	50.0	48.27		ug/L		97	52 - 120	6	28	
Hexachlorobenzene	50.0	53.68		ug/L		107	48 - 131	1	28	
Hexachlorobutadiene	50.0	36.37		ug/L		73	28 - 120	2	43	
Hexachlorocyclopentadiene	50.0	31.11		ug/L		62	17 - 120	7	43	
Hexachloroethane	50.0	29.51		ug/L		59	30 - 120	3	45	
Indeno[1,2,3-cd]pyrene	50.0	43.87		ug/L		88	54 - 125	3	27	
Isophorone	50.0	46.76		ug/L		94	47 - 120	5	31	

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-26888/3-A

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Naphthalene	50.0	40.94		ug/L		82	37 - 120	1	37	
Nitrobenzene	50.0	49.64		ug/L		99	36 - 120	2	28	
N-Nitrosodi-n-propylamine	50.0	50.87		ug/L		102	51 - 120	4	37	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	61.69		ug/L		123	58 - 149	7	26	
Pentachlorophenol	50.0	50.15		ug/L		100	21 - 150	1	31	
Phenanthrene	50.0	48.80		ug/L		98	56 - 120	4	26	
Phenol	50.0	16.78		ug/L		34	14 - 120	21	42	
Pyrene	50.0	53.27		ug/L		107	53 - 129	2	29	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	88		10 - 120
2-Fluorobiphenyl (Surr)	68		29 - 120
2-Fluorophenol (Surr)	33		10 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol-d5 (Surr)	24		10 - 120
Terphenyl-d14 (Surr)	95		13 - 120

Lab Sample ID: 490-8674-E-2-B MS

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
1,2,4-Trichlorobenzene	ND		47.6	37.93		ug/L		80	27 - 120	
1,2-Dichlorobenzene	ND		47.6	34.45		ug/L		72	29 - 120	
1,3-Dichlorobenzene	ND		47.6	34.05		ug/L		72	27 - 200	
1,4-Dichlorobenzene	ND		47.6	33.66		ug/L		71	31 - 120	
1-Methylnaphthalene	ND		47.6	43.35		ug/L		91	34 - 120	
2,4,5-Trichlorophenol	ND		47.6	51.92		ug/L		109	40 - 129	
2,4,6-Trichlorophenol	ND		47.6	51.84		ug/L		109	39 - 135	
2,4-Dichlorophenol	ND		47.6	46.34		ug/L		97	38 - 120	
2,4-Dimethylphenol	ND		47.6	43.55		ug/L		91	11 - 130	
2,4-Dinitrophenol	ND		47.6	ND		ug/L		26	10 - 176	
2,4-Dinitrotoluene	ND		47.6	47.41		ug/L		100	46 - 134	
2,6-Dinitrotoluene	ND		47.6	50.49		ug/L		106	54 - 128	
2-Chloronaphthalene	ND		47.6	47.30		ug/L		99	39 - 120	
2-Chlorophenol	ND		47.6	43.49		ug/L		91	40 - 120	
2-Methylnaphthalene	ND		47.6	43.57		ug/L		91	31 - 120	
2-Methylphenol	ND		47.6	41.66		ug/L		87	36 - 120	
2-Nitroaniline	ND		47.6	54.46		ug/L		114	46 - 131	
2-Nitrophenol	ND		47.6	41.34		ug/L		87	32 - 120	
3,3'-Dichlorobenzidine	ND		47.6	38.33		ug/L		80	10 - 130	
3 & 4 Methylphenol	ND		47.6	38.86		ug/L		82	32 - 120	
3-Nitroaniline	ND		47.6	52.39		ug/L		110	38 - 121	
4,6-Dinitro-2-methylphenol	ND		47.6	ND		ug/L		31	10 - 157	
4-Bromophenyl phenyl ether	ND		47.6	52.75		ug/L		111	47 - 127	
4-Chloro-3-methylphenol	ND		47.6	48.13		ug/L		101	38 - 120	
4-Chlorophenyl phenyl ether	ND		47.6	51.42		ug/L		108	50 - 120	
4-Chloroaniline	ND		47.6	45.40		ug/L		95	35 - 120	
4-Nitroaniline	ND		47.6	49.99		ug/L		105	47 - 124	

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8674-E-2-B MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 27676

Prep Batch: 26888

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Nitrophenol	ND	*	47.6	25.54		ug/L		54	10 - 120
Acenaphthylene	ND		47.6	48.73		ug/L		102	48 - 120
Acenaphthene	ND		47.6	47.22		ug/L		99	46 - 120
Benzo[a]anthracene	3.10		47.6	50.02		ug/L		99	57 - 122
Benzo[a]pyrene	2.67		47.6	51.51		ug/L		103	46 - 138
Benzo[b]fluoranthene	3.72		47.6	51.10		ug/L		99	45 - 138
Benzo[g,h,i]perylene	ND		47.6	38.87		ug/L		79	48 - 137
Benzo[k]fluoranthene	ND		47.6	55.37		ug/L		113	44 - 134
Anthracene	ND		47.6	49.02		ug/L		101	56 - 130
Bis(2-chloroethoxy)methane	ND		47.6	45.72		ug/L		96	41 - 120
Bis(2-chloroethyl)ether	ND		47.6	46.68		ug/L		98	42 - 120
Bis(2-ethylhexyl) phthalate	ND		47.6	54.83		ug/L		110	44 - 138
bis (2-chloroisopropyl) ether	ND		47.6	47.84		ug/L		100	44 - 120
Butyl benzyl phthalate	ND		47.6	57.36		ug/L		120	51 - 146
Carbazole	ND		47.6	52.42		ug/L		110	53 - 123
Chrysene	2.87		47.6	47.21		ug/L		93	54 - 123
Cresols	ND		95.2	80.52		ug/L		85	32 - 120
Dibenz(a,h)anthracene	ND		47.6	41.57		ug/L		87	50 - 136
Dibenzofuran	ND		47.6	50.29		ug/L		106	50 - 120
Diethyl phthalate	ND		47.6	48.13		ug/L		101	53 - 128
Dimethyl phthalate	ND		47.6	46.74		ug/L		98	53 - 127
Di-n-butyl phthalate	ND		47.6	49.06		ug/L		103	54 - 140
Di-n-octyl phthalate	ND		47.6	63.12		ug/L		133	50 - 142
Fluoranthene	6.78		47.6	47.80		ug/L		86	56 - 120
Fluorene	ND		47.6	49.76		ug/L		104	52 - 120
Hexachlorobenzene	ND		47.6	53.08		ug/L		111	48 - 131
Hexachlorobutadiene	ND		47.6	38.99		ug/L		82	24 - 120
Hexachlorocyclopentadiene	ND		47.6	16.56		ug/L		35	10 - 120
Hexachloroethane	ND		47.6	29.74		ug/L		62	26 - 120
Indeno[1,2,3-cd]pyrene	ND		47.6	41.46		ug/L		85	50 - 136
Isophorone	ND		47.6	42.27		ug/L		89	42 - 120
Naphthalene	ND		47.6	44.10		ug/L		93	32 - 120
Nitrobenzene	ND		47.6	47.47		ug/L		100	36 - 120
N-Nitrosodi-n-propylamine	ND		47.6	49.19		ug/L		103	50 - 121
n-Nitrosodiphenylamine(as diphenylamine)	ND		47.6	60.15		ug/L		126	45 - 149
Pentachlorophenol	ND		47.6	50.13		ug/L		105	21 - 159
Phenanthrene	5.22		47.6	48.91		ug/L		92	53 - 120
Phenol	ND		47.6	18.44		ug/L		39	10 - 120
Pyrene	6.05		47.6	55.14		ug/L		103	50 - 129

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	95		10 - 120
2-Fluorobiphenyl (Surr)	75		29 - 120
2-Fluorophenol (Surr)	38		10 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14 (Surr)	83		13 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8674-E-2-C MSD

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
1,2,4-Trichlorobenzene	ND		48.5	34.07		ug/L		70	27 - 120	11	35
1,2-Dichlorobenzene	ND		48.5	30.85		ug/L		64	29 - 120	11	42
1,3-Dichlorobenzene	ND		48.5	31.09		ug/L		64	27 - 200	9	42
1,4-Dichlorobenzene	ND		48.5	31.38		ug/L		65	31 - 120	7	44
1-Methylnaphthalene	ND		48.5	38.86		ug/L		80	34 - 120	11	36
2,4,5-Trichlorophenol	ND		48.5	45.29		ug/L		93	40 - 129	14	34
2,4,6-Trichlorophenol	ND		48.5	45.06		ug/L		93	39 - 135	14	40
2,4-Dichlorophenol	ND		48.5	41.76		ug/L		86	38 - 120	10	30
2,4-Dimethylphenol	ND		48.5	37.25		ug/L		77	11 - 130	16	48
2,4-Dinitrophenol	ND		48.5	ND		ug/L		31	10 - 176	18	31
2,4-Dinitrotoluene	ND		48.5	42.64		ug/L		88	46 - 134	11	26
2,6-Dinitrotoluene	ND		48.5	45.36		ug/L		93	54 - 128	11	29
2-Chloronaphthalene	ND		48.5	41.18		ug/L		85	39 - 120	14	36
2-Chlorophenol	ND		48.5	36.28		ug/L		75	40 - 120	18	46
2-Methylnaphthalene	ND		48.5	39.16		ug/L		81	31 - 120	11	35
2-Methylphenol	ND		48.5	35.09		ug/L		72	36 - 120	17	32
2-Nitroaniline	ND		48.5	47.92		ug/L		99	46 - 131	13	24
2-Nitrophenol	ND		48.5	36.63		ug/L		75	32 - 120	12	31
3,3'-Dichlorobenzidine	ND		48.5	33.05		ug/L		68	10 - 130	15	30
3 & 4 Methylphenol	ND		48.5	32.87		ug/L		68	32 - 120	17	34
3-Nitroaniline	ND		48.5	46.65		ug/L		96	38 - 121	12	26
4,6-Dinitro-2-methylphenol	ND		48.5	ND		ug/L		29	10 - 157	2	34
4-Bromophenyl phenyl ether	ND		48.5	47.77		ug/L		98	47 - 127	10	29
4-Chloro-3-methylphenol	ND		48.5	43.69		ug/L		90	38 - 120	10	22
4-Chlorophenyl phenyl ether	ND		48.5	45.60		ug/L		94	50 - 120	12	29
4-Chloroaniline	ND		48.5	35.68		ug/L		73	35 - 120	24	26
4-Nitroaniline	ND		48.5	41.79		ug/L		86	47 - 124	18	26
4-Nitrophenol	ND *		48.5	ND		ug/L		44	10 - 120	19	38
Acenaphthylene	ND		48.5	43.25		ug/L		89	48 - 120	12	31
Acenaphthene	ND		48.5	41.37		ug/L		85	46 - 120	13	31
Benzo[a]anthracene	3.10		48.5	45.90		ug/L		88	57 - 122	9	27
Benzo[a]pyrene	2.67		48.5	46.54		ug/L		90	46 - 138	10	27
Benzo[b]fluoranthene	3.72		48.5	45.52		ug/L		86	45 - 138	12	39
Benzo[g,h,i]perylene	ND		48.5	35.76		ug/L		71	48 - 137	8	27
Benzo[k]fluoranthene	ND		48.5	51.63		ug/L		104	44 - 134	7	32
Anthracene	ND		48.5	44.63		ug/L		90	56 - 130	9	28
Bis(2-chloroethoxy)methane	ND		48.5	40.40		ug/L		83	41 - 120	12	31
Bis(2-chloroethyl)ether	ND		48.5	34.11		ug/L		70	42 - 120	31	38
Bis(2-ethylhexyl) phthalate	ND		48.5	49.67		ug/L		97	44 - 138	10	28
bis (2-chloroisopropyl) ether	ND		48.5	39.34		ug/L		81	44 - 120	20	36
Butyl benzyl phthalate	ND		48.5	52.14		ug/L		107	51 - 146	10	31
Carbazole	ND		48.5	46.80		ug/L		96	53 - 123	11	29
Chrysene	2.87		48.5	42.96		ug/L		83	54 - 123	9	27
Cresols	ND		97.1	67.96		ug/L		70	32 - 120	17	34
Dibenz(a,h)anthracene	ND		48.5	37.77		ug/L		78	50 - 136	10	28
Dibenzofuran	ND		48.5	44.47		ug/L		92	50 - 120	12	29
Diethyl phthalate	ND		48.5	42.90		ug/L		88	53 - 128	11	28
Dimethyl phthalate	ND		48.5	41.12		ug/L		85	53 - 127	13	27
Di-n-butyl phthalate	ND		48.5	44.84		ug/L		92	54 - 140	9	27

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-8674-E-2-C MSD

Matrix: Water

Analysis Batch: 27676

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26888

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Di-n-octyl phthalate	ND		48.5	56.80		ug/L		117	50 - 142	11	28	
Fluoranthene	6.78		48.5	44.00		ug/L		77	56 - 120	8	28	
Fluorene	ND		48.5	44.25		ug/L		91	52 - 120	12	28	
Hexachlorobenzene	ND		48.5	48.81		ug/L		101	48 - 131	8	28	
Hexachlorobutadiene	ND		48.5	36.40		ug/L		75	24 - 120	7	43	
Hexachlorocyclopentadiene	ND		48.5	15.74		ug/L		32	10 - 120	5	43	
Hexachloroethane	ND		48.5	27.00		ug/L		56	26 - 120	10	45	
Indeno[1,2,3-cd]pyrene	ND		48.5	38.23		ug/L		77	50 - 136	8	27	
Isophorone	ND		48.5	38.32		ug/L		79	42 - 120	10	31	
Naphthalene	ND		48.5	39.47		ug/L		81	32 - 120	11	37	
Nitrobenzene	ND		48.5	42.68		ug/L		88	36 - 120	11	28	
N-Nitrosodi-n-propylamine	ND		48.5	42.59		ug/L		88	50 - 121	14	37	
n-Nitrosodiphenylamine(as diphenylamine)	ND		48.5	52.71		ug/L		109	45 - 149	13	26	
Pentachlorophenol	ND		48.5	44.66		ug/L		92	21 - 159	12	31	
Phenanthrene	5.22		48.5	45.57		ug/L		83	53 - 120	7	26	
Phenol	ND		48.5	15.00		ug/L		31	10 - 120	21	42	
Pyrene	6.05		48.5	50.84		ug/L		92	50 - 129	8	29	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		10 - 120
2-Fluorobiphenyl (Surr)	65		29 - 120
2-Fluorophenol (Surr)	30		10 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d5 (Surr)	21		10 - 120
Terphenyl-d14 (Surr)	74		13 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-26278/19

Matrix: Water

Analysis Batch: 26278

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6-C10	ND		100	ug/L			10/08/12 18:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	113		50 - 150		10/08/12 18:57	1

Lab Sample ID: LCS 490-26278/17

Matrix: Water

Analysis Batch: 26278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
C6-C10	1000	1431		ug/L		143	30 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	77		50 - 150

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 490-26278/18
Matrix: Water
Analysis Batch: 26278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1298		ug/L		130	30 - 150	10	42
Surrogate		%Recovery	Qualifier						Limits
a,a,a-Trifluorotoluene		90							50 - 150

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-26873/1-A
Matrix: Water
Analysis Batch: 26934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26873

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		10/10/12 07:05	10/10/12 18:43	1
Surrogate		%Recovery						Dil Fac
o-Terphenyl (Surr)		84				10/10/12 07:05	10/10/12 18:43	1

Lab Sample ID: LCS 490-26873/2-A
Matrix: Water
Analysis Batch: 26934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	856.5		ug/L		86	46 - 132
Surrogate		%Recovery	Qualifier				Limits
o-Terphenyl (Surr)		86					50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-26485/2
Matrix: Water
Analysis Batch: 26485

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			10/08/12 19:04	1

Lab Sample ID: LCS 490-26485/3
Matrix: Water
Analysis Batch: 26485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.82		mg/L		110	90 - 110

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-8476-H-10 MS
Matrix: Water
Analysis Batch: 26485

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.06		50.0	63.31	F	mg/L		122	80 - 120

Lab Sample ID: 490-8476-H-10 DU
Matrix: Water
Analysis Batch: 26485

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	2.06		2.078		mg/L		0.8	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-27269/1-A
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27269

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 13:51	1
Chromium	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 13:51	1
Cobalt	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 13:51	1
Copper	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 13:51	1
Lead	ND		0.00500	mg/L		10/11/12 09:23	10/12/12 13:51	1
Manganese	ND		0.0150	mg/L		10/11/12 09:23	10/12/12 13:51	1
Nickel	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 13:51	1
Selenium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 13:51	1
Thallium	ND		0.0100	mg/L		10/11/12 09:23	10/12/12 13:51	1
Vanadium	ND		0.0200	mg/L		10/11/12 09:23	10/12/12 13:51	1

Lab Sample ID: LCS 490-27269/2-A
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05150		mg/L		103	80 - 120
Chromium	0.200	0.2152		mg/L		108	80 - 120
Cobalt	0.500	0.5487		mg/L		110	80 - 120
Copper	0.250	0.2710		mg/L		108	80 - 120
Iron	1.00	1.051		mg/L		105	80 - 120
Lead	0.0500	0.05550		mg/L		111	80 - 120
Manganese	0.500	0.5571		mg/L		111	80 - 120
Nickel	0.500	0.5550		mg/L		111	80 - 120
Selenium	0.0500	0.05370		mg/L		107	80 - 120
Thallium	0.0500	0.04740		mg/L		95	80 - 120
Vanadium	0.500	0.5370		mg/L		107	80 - 120

Lab Sample ID: LCSD 490-27269/3-A
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0500	0.05050		mg/L		101	80 - 120	2	20

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-27269/3-A
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	Limit
Chromium	0.200	0.2039		mg/L		102	80 - 120	5	20	
Cobalt	0.500	0.5227		mg/L		105	80 - 120	5	20	
Copper	0.250	0.2575		mg/L		103	80 - 120	5	20	
Iron	1.00	0.9998		mg/L		100	80 - 120	5	20	
Lead	0.0500	0.05270		mg/L		105	80 - 120	5	20	
Manganese	0.500	0.5274		mg/L		105	80 - 120	5	20	
Nickel	0.500	0.5279		mg/L		106	80 - 120	5	20	
Selenium	0.0500	0.05240		mg/L		105	80 - 120	2	20	
Thallium	0.0500	0.04460		mg/L		89	80 - 120	6	20	
Vanadium	0.500	0.5172		mg/L		103	80 - 120	4	20	

Lab Sample ID: 490-8676-D-1-B MS
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	Limit
Arsenic	ND		0.0500	0.05410		mg/L		108	75 - 125	
Chromium	ND		0.200	0.1985		mg/L		99	75 - 125	
Cobalt	ND		0.500	0.5631		mg/L		113	75 - 125	
Copper	ND		0.250	0.2624		mg/L		105	75 - 125	
Iron	4.96		1.00	6.518	4	mg/L		156	75 - 125	
Lead	ND		0.0500	0.05660		mg/L		113	75 - 125	
Manganese	1.19		0.500	1.748		mg/L		112	75 - 125	
Nickel	ND		0.500	0.5582		mg/L		112	75 - 125	
Selenium	ND		0.0500	0.06290		mg/L		118	75 - 125	
Thallium	ND		0.0500	0.04400		mg/L		88	75 - 125	
Vanadium	ND		0.500	0.5131		mg/L		103	75 - 125	

Lab Sample ID: 490-8676-D-1-C MSD
Matrix: Water
Analysis Batch: 28088

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27269

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	Limit
Arsenic	ND		0.0500	0.05720		mg/L		114	75 - 125	6
Chromium	ND		0.200	0.2023		mg/L		101	75 - 125	2
Cobalt	ND		0.500	0.5651		mg/L		113	75 - 125	0
Copper	ND		0.250	0.2655		mg/L		106	75 - 125	1
Iron	4.96		1.00	6.030	4	mg/L		108	75 - 125	8
Lead	ND		0.0500	0.05630		mg/L		113	75 - 125	1
Manganese	1.19		0.500	1.695		mg/L		102	75 - 125	3
Nickel	ND		0.500	0.5644		mg/L		113	75 - 125	1
Selenium	ND		0.0500	0.05820		mg/L		108	75 - 125	8
Thallium	ND		0.0500	0.04410		mg/L		88	75 - 125	0
Vanadium	ND		0.500	0.5281		mg/L		106	75 - 125	3

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

GC/MS VOA

Analysis Batch: 27823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8478-B-7 MS	Matrix Spike	Total/NA	Water	8260B	
490-8478-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-8572-1	MW-OS 20S	Total/NA	Water	8260B	
490-8572-2	MW-OS 25S	Total/NA	Water	8260B	
490-8572-3	MW-OS 10S	Total/NA	Water	8260B	
490-8572-4	MW-OS 5S	Total/NA	Water	8260B	
490-8572-5	MW-OS 5E	Total/NA	Water	8260B	
490-8572-6	MW-OS 10E	Total/NA	Water	8260B	
490-8572-7	MW-OS 5N	Total/NA	Water	8260B	
LCS 490-27823/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-27823/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 28589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8494-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-8494-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-8572-1	MW-OS 20S	Total/NA	Water	8260B	
490-8572-2	MW-OS 25S	Total/NA	Water	8260B	
490-8572-3	MW-OS 10S	Total/NA	Water	8260B	
490-8572-4	MW-OS 5S	Total/NA	Water	8260B	
490-8572-5	MW-OS 5E	Total/NA	Water	8260B	
490-8572-6	MW-OS 10E	Total/NA	Water	8260B	
490-8572-7	MW-OS 5N	Total/NA	Water	8260B	
LCS 490-28589/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-28589/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 26888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	3510C	
490-8572-2	MW-OS 25S	Total/NA	Water	3510C	
490-8572-3	MW-OS 10S	Total/NA	Water	3510C	
490-8572-4	MW-OS 5S	Total/NA	Water	3510C	
490-8572-5	MW-OS 5E	Total/NA	Water	3510C	
490-8572-6	MW-OS 10E	Total/NA	Water	3510C	
490-8572-7	MW-OS 5N	Total/NA	Water	3510C	
490-8674-E-2-B MS	Matrix Spike	Total/NA	Water	3510C	
490-8674-E-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
LCS 490-26888/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-26888/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 490-26888/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 27676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	8270D	26888
490-8674-E-2-B MS	Matrix Spike	Total/NA	Water	8270D	26888
490-8674-E-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	26888
LCS 490-26888/2-A	Lab Control Sample	Total/NA	Water	8270D	26888
LCSD 490-26888/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	26888
MB 490-26888/1-A	Method Blank	Total/NA	Water	8270D	26888



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

GC/MS Semi VOA (Continued)

Analysis Batch: 28030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	8270D	26888
490-8572-1	MW-OS 20S	Total/NA	Water	8270D	26888
490-8572-2	MW-OS 25S	Total/NA	Water	8270D	26888
490-8572-2	MW-OS 25S	Total/NA	Water	8270D	26888
490-8572-3	MW-OS 10S	Total/NA	Water	8270D	26888
490-8572-3	MW-OS 10S	Total/NA	Water	8270D	26888
490-8572-4	MW-OS 5S	Total/NA	Water	8270D	26888
490-8572-4	MW-OS 5S	Total/NA	Water	8270D	26888
490-8572-5	MW-OS 5E	Total/NA	Water	8270D	26888
490-8572-6	MW-OS 10E	Total/NA	Water	8270D	26888
490-8572-6	MW-OS 10E	Total/NA	Water	8270D	26888
490-8572-7	MW-OS 5N	Total/NA	Water	8270D	26888
490-8572-7	MW-OS 5N	Total/NA	Water	8270D	26888

Analysis Batch: 28195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-4	MW-OS 5S	Total/NA	Water	8270D	26888

GC VOA

Analysis Batch: 26278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	8015C	
490-8572-2	MW-OS 25S	Total/NA	Water	8015C	
490-8572-3	MW-OS 10S	Total/NA	Water	8015C	
490-8572-4	MW-OS 5S	Total/NA	Water	8015C	
490-8572-5	MW-OS 5E	Total/NA	Water	8015C	
490-8572-6	MW-OS 10E	Total/NA	Water	8015C	
490-8572-7	MW-OS 5N	Total/NA	Water	8015C	
LCS 490-26278/17	Lab Control Sample	Total/NA	Water	8015C	
LCS 490-26278/18	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-26278/19	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 26873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	3510C	
490-8572-2	MW-OS 25S	Total/NA	Water	3510C	
490-8572-3	MW-OS 10S	Total/NA	Water	3510C	
490-8572-4	MW-OS 5S	Total/NA	Water	3510C	
490-8572-5	MW-OS 5E	Total/NA	Water	3510C	
490-8572-6	MW-OS 10E	Total/NA	Water	3510C	
490-8572-7	MW-OS 5N	Total/NA	Water	3510C	
LCS 490-26873/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-26873/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 26934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-5	MW-OS 5E	Total/NA	Water	8015C	26873
490-8572-6	MW-OS 10E	Total/NA	Water	8015C	26873
LCS 490-26873/2-A	Lab Control Sample	Total/NA	Water	8015C	26873



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

GC Semi VOA (Continued)

Analysis Batch: 26934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-26873/1-A	Method Blank	Total/NA	Water	8015C	26873

Analysis Batch: 27329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	8015C	26873
490-8572-2	MW-OS 25S	Total/NA	Water	8015C	26873
490-8572-3	MW-OS 10S	Total/NA	Water	8015C	26873
490-8572-4	MW-OS 5S	Total/NA	Water	8015C	26873
490-8572-7	MW-OS 5N	Total/NA	Water	8015C	26873

HPLC/IC

Analysis Batch: 26485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8476-H-10 DU	Duplicate	Total/NA	Water	300.0	
490-8476-H-10 MS	Matrix Spike	Total/NA	Water	300.0	
490-8572-1	MW-OS 20S	Total/NA	Water	300.0	
490-8572-2	MW-OS 25S	Total/NA	Water	300.0	
490-8572-3	MW-OS 10S	Total/NA	Water	300.0	
490-8572-4	MW-OS 5S	Total/NA	Water	300.0	
490-8572-5	MW-OS 5E	Total/NA	Water	300.0	
490-8572-6	MW-OS 10E	Total/NA	Water	300.0	
490-8572-7	MW-OS 5N	Total/NA	Water	300.0	
LCS 490-26485/3	Lab Control Sample	Total/NA	Water	300.0	
MB 490-26485/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 27269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	3010A	
490-8572-2	MW-OS 25S	Total/NA	Water	3010A	
490-8572-3	MW-OS 10S	Total/NA	Water	3010A	
490-8572-4	MW-OS 5S	Total/NA	Water	3010A	
490-8572-5	MW-OS 5E	Total/NA	Water	3010A	
490-8572-6	MW-OS 10E	Total/NA	Water	3010A	
490-8572-7	MW-OS 5N	Total/NA	Water	3010A	
490-8676-D-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-8676-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-27269/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-27269/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-27269/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 28088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8572-1	MW-OS 20S	Total/NA	Water	6010C	27269
490-8572-2	MW-OS 25S	Total/NA	Water	6010C	27269
490-8572-3	MW-OS 10S	Total/NA	Water	6010C	27269
490-8572-4	MW-OS 5S	Total/NA	Water	6010C	27269
490-8572-5	MW-OS 5E	Total/NA	Water	6010C	27269
490-8572-6	MW-OS 10E	Total/NA	Water	6010C	27269
490-8572-7	MW-OS 5N	Total/NA	Water	6010C	27269



QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Metals (Continued)

Analysis Batch: 28088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-8676-D-1-B MS	Matrix Spike	Total/NA	Water	6010C	27269
490-8676-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	27269
LCS 490-27269/2-A	Lab Control Sample	Total/NA	Water	6010C	27269
LCSD 490-27269/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	27269
MB 490-27269/1-A	Method Blank	Total/NA	Water	6010C	27269

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 20S

Lab Sample ID: 490-8572-1

Date Collected: 10/05/12 10:35

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 04:54	JR	TAL NSH
Total/NA	Analysis	8260B		50	28589	10/17/12 04:18	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	27676	10/13/12 02:36	KP	TAL NSH
Total/NA	Analysis	8270D		10	28030	10/14/12 19:25	KP	TAL NSH
Total/NA	Analysis	8270D		20	28030	10/15/12 03:52	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 00:16	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		4	27329	10/11/12 15:37	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 03:24	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 15:16	BB	TAL NSH

Client Sample ID: MW-OS 25S

Lab Sample ID: 490-8572-2

Date Collected: 10/05/12 11:20

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 05:22	JR	TAL NSH
Total/NA	Analysis	8260B		20	28589	10/17/12 04:45	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 19:47	KP	TAL NSH
Total/NA	Analysis	8270D		5	28030	10/14/12 20:09	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 00:48	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		4	27329	10/11/12 15:53	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 03:49	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 14:48	BB	TAL NSH

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 05:49	JR	TAL NSH
Total/NA	Analysis	8260B		50	28589	10/17/12 05:12	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 20:31	KP	TAL NSH
Total/NA	Analysis	8270D		10	28030	10/14/12 20:54	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 01:20	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		4	27329	10/11/12 16:10	JF	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10S

Lab Sample ID: 490-8572-3

Date Collected: 10/05/12 12:15

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	26485	10/09/12 04:14	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 15:09	BB	TAL NSH

Client Sample ID: MW-OS 5S

Lab Sample ID: 490-8572-4

Date Collected: 10/05/12 13:05

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 06:16	JR	TAL NSH
Total/NA	Analysis	8260B		100	28589	10/17/12 05:39	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 21:16	KP	TAL NSH
Total/NA	Analysis	8270D		10	28030	10/14/12 21:38	KP	TAL NSH
Total/NA	Analysis	8270D		50	28195	10/15/12 14:32	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 01:52	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		4	27329	10/11/12 16:26	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 04:39	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 14:44	BB	TAL NSH

Client Sample ID: MW-OS 5E

Lab Sample ID: 490-8572-5

Date Collected: 10/05/12 13:55

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 06:43	JR	TAL NSH
Total/NA	Analysis	8260B		10	28589	10/17/12 06:06	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 22:00	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 02:24	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		1	26934	10/10/12 20:19	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 05:04	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 14:51	BB	TAL NSH

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Client Sample ID: MW-OS 10E

Lab Sample ID: 490-8572-6

Date Collected: 10/05/12 14:40

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 07:10	JR	TAL NSH
Total/NA	Analysis	8260B		5	28589	10/17/12 06:33	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 22:23	KP	TAL NSH
Total/NA	Analysis	8270D		2	28030	10/14/12 22:45	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 02:56	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		1	26934	10/10/12 20:35	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 05:29	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 15:13	BB	TAL NSH

Client Sample ID: MW-OS 5N

Lab Sample ID: 490-8572-7

Date Collected: 10/05/12 15:30

Matrix: Water

Date Received: 10/06/12 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	27823	10/13/12 07:37	JR	TAL NSH
Total/NA	Analysis	8260B		5	28589	10/17/12 07:00	JR	TAL NSH
Total/NA	Prep	3510C			26888	10/10/12 07:49	RH	TAL NSH
Total/NA	Analysis	8270D		1	28030	10/14/12 23:07	KP	TAL NSH
Total/NA	Analysis	8270D		5	28030	10/14/12 23:29	KP	TAL NSH
Total/NA	Analysis	8015C		1	26278	10/09/12 03:28	GM	TAL NSH
Total/NA	Prep	3510C			26873	10/10/12 07:05	NR	TAL NSH
Total/NA	Analysis	8015C		2	27329	10/11/12 16:42	JF	TAL NSH
Total/NA	Analysis	300.0		1	26485	10/09/12 05:54	AC	TAL NSH
Total/NA	Prep	3010A			27269	10/11/12 09:23	NLI	TAL NSH
Total/NA	Analysis	6010C		1	28088	10/12/12 15:06	BB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J12100210

TestAmerica Job ID: 490-8572-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAC	1	2963	10-09-13
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13



COOLER RECEIPT 1



490-8572 Chain of

Cooler Received/Opened On 10/6/2012 @ 0815

1. Tracking # 1520 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____



COOLER RECEIPT FORM

Loc: 490
8572

Cooler Received/Opened On 10/6/2012 @ 8:15

1. Tracking # 1601 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 0.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

Loc: 490
8572

COOLER RECEIPT FORM

Cooler Received/Opened On 10/6/2012 @ 0815

1. Tracking # 1612 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA 10-6-12

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) JB

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JB

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JB

I certify that I attached a label with the unique LIMS number to each container (initial) JB

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____



THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
8572

Cooler Received/Opened On 10/6/2012 @ 8:15

1. Tracking # 1531 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: -0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) EB

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EB

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EB

I certify that I attached a label with the unique LIMS number to each container (initial) EB

21. Were there Non-Conformance issues at login? YES NO Was a PIPE generated? YES NO # 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane, WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: INVOICE TO: PRESERVATIVE

REPORT TO: Andy Clark
 ADDRESS: 2801 Yorkmont Rd Ste 100
 Charlotte, NC 28208
 PHONE: 704-357-2606 FAX:

PROJECT NAME: Duke - Spartanburg
 PROJECT NUMBER: 6728-12-0021

SAMPLED BY: Troy L Holzschuh

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES								OTHER	Specify:	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	
		Vol's	Svcs	TPH	GRD	TPH	DRD	Sulfate	Metals							
1. MW-05 205	10-5-12 1035	3	2	3		2	1	1				W	12			
2. Trip Blank-4	10-5-12 1000	3	2	3		2	1	1				W	2	TD Broken in Service center		
3. MW-05 255	10-5-12 1120	3	2	3		2	1	1				W	12	One liter broken in Service center		
4. MW-05 105	10-5-12 1215	3	2	3		2	1	1				W	12			
5. MW-05 55	10-5-12 1305	3	2	3		2	1	1				W	12			
6. MW-05 5E	10-5-12 1355	3	2	3		2	1	1				W	12	Loc: 490	8572	
7. MW-05 10E	10-5-12 1440	3	2	3		2	1	1				W	12			
8. MW-05 5N	10-5-12 1530	3	2	3		2	1	1				W	12			
9.																
10.																

RELEASED BY: Troy L Holzschuh FIRM: AMEC DATE: 10-5-12

PRINT NAME: C. Bonbaum FIRM: TA DATE: 10/5/12

RECEIVED BY: C. Bonbaum FIRM: TA DATE: 10/5/12

PRINT NAME: James Brothers FIRM: TA DATE: 10/5/12

ADDITIONAL REMARKS: Metals: Arsenic, chromium, selenium, thallium, vanadium, copper, nickel, lead, manganese, cobalt

DATE: 10/5/12 TIME: 17:00
 DATE: 10/6/12 TIME: 8:15

TEMP: PAGE 1 OF 1



Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-8572-1

Login Number: 8572

List Source: TestAmerica Nashville

List Number: 1

Creator: Brothers, James

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13010463

Customer Name(s): Andy Clark, Jessica Bednarcik

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)


Jason C Perkins

Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.02.12 15:35:08 -05'00'

Date: 2/12/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013002060	SPARTANBURG	23-Jan-13 8:50 AM	AMEC	TA#490-17957 MW-13ISOC
2013002061	SPARTANBURG	23-Jan-13 10:25 AM	AMEC	TA#490-17957 OS-255
2013002062	SPARTANBURG	23-Jan-13 11:10 AM	AMEC	TA#490-17957 OS-205
2013002063	SPARTANBURG	23-Jan-13 12:05 PM	AMEC	TA#490-17957 OS-15S
2013002064	SPARTANBURG	23-Jan-13 1:00 PM	AMEC	TA#490-17957 OS-10S
2013002065	SPARTANBURG	23-Jan-13 2:05 PM	AMEC	TA#490-17957 OS-5S
2013002066	SPARTANBURG	23-Jan-13 3:00 PM	AMEC	TA#490-17957 OS-10E
2013002067	SPARTANBURG	23-Jan-13 4:10 PM	AMEC	TA#490-17957 02-5E
2013002068	SPARTANBURG	23-Jan-13 7:00 AM	AMEC	TA#490-17957 Trip Blank-1
2013002069	SPARTANBURG	23-Jan-13 10:30 AM	AMEC	TA#490-17957 Trip Blank-2
2013002070	SPARTANBURG	23-Jan-13 12:30 PM	AMEC	TA#490-17957 Trip Blank-3
2013002071	SPARTANBURG	23-Jan-13 2:55 PM	AMEC	TA#490-17957 Trip Blank-4

12 Total Samples

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualifi Test America

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 2/12/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13010463

Site: TA#490-17957 MW-13ISOC

Collection Date: 23-Jan-13 8:50 AM

Sample #: 2013002060

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-255

Collection Date: 23-Jan-13 10:25 AM

Sample #: 2013002061

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-205

Collection Date: 23-Jan-13 11:10 AM

Sample #: 2013002062

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13010463

Site: TA#490-17957 OS-205
Collection Date: 23-Jan-13 11:10 AM

Sample #: 2013002062
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-15S
Collection Date: 23-Jan-13 12:05 PM

Sample #: 2013002063
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-10S
Collection Date: 23-Jan-13 1:00 PM

Sample #: 2013002064
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13010463

Site: TA#490-17957 OS-10S

Collection Date: 23-Jan-13 1:00 PM

Sample #: 2013002064

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-5S

Collection Date: 23-Jan-13 2:05 PM

Sample #: 2013002065

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 OS-10E

Collection Date: 23-Jan-13 3:00 PM

Sample #: 2013002066

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13010463

Site: TA#490-17957 OS-10E

Collection Date: 23-Jan-13 3:00 PM

Sample #: 2013002066

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 02-5E

Collection Date: 23-Jan-13 4:10 PM

Sample #: 2013002067

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 Trip Blank-1

Collection Date: 23-Jan-13 7:00 AM

Sample #: 2013002068

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: TA#490-17957 Trip Blank-2

Collection Date: 23-Jan-13 10:30 AM

Sample #: 2013002069

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13010463

Site: TA#490-17957 Trip Blank-2

Collection Date: 23-Jan-13 10:30 AM

Sample #: 2013002069

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
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Site: TA#490-17957 Trip Blank-3

Collection Date: 23-Jan-13 12:30 PM

Sample #: 2013002070

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
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VOLATILES - (Analysis Performed by Test America)

Vendor Parameter

Complete

Vendor Method

V_T. America

Site: TA#490-17957 Trip Blank-4

Collection Date: 23-Jan-13 2:55 PM

Sample #: 2013002071

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
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VOLATILES - (Analysis Performed by Test America)

Vendor Parameter

Complete

Vendor Method

V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
 TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Tel: (615)726-0177

TestAmerica Job ID: 490-17957-1
 Client Project/Site: Duke Energy-Spartanburg J13010463

For:
 Duke Energy Corporation
 13339 Hagers Ferry Road
 Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
 2/11/2013 12:20:48 PM

Shali Brown
 Project Manager I
shali.brown@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-17957-1	MW-13 ISOC	Water	01/23/13 08:50	01/25/13 09:00
490-17957-2	OS-25S	Water	01/23/13 10:25	01/25/13 09:00
490-17957-3	OS-20S	Water	01/23/13 11:10	01/25/13 09:00
490-17957-4	OS-15S	Water	01/23/13 12:05	01/25/13 09:00
490-17957-5	OS-10S	Water	01/23/13 13:00	01/25/13 09:00
490-17957-6	OS-5S	Water	01/23/13 14:05	01/25/13 09:00
490-17957-7	OS-10E	Water	01/23/13 15:00	01/25/13 09:00
490-17957-8	OS-5E	Water	01/23/13 16:10	01/25/13 09:00
490-17957-9	Trip Blank-1	Water	01/23/13 00:01	01/25/13 09:00
490-17957-10	Trip Blank-2	Water	01/23/13 00:01	01/25/13 09:00
490-17957-11	Trip Blank-3	Water	01/23/13 00:01	01/25/13 09:00
490-17957-12	Trip Blank-4	Water	01/23/13 00:01	01/25/13 09:00



Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Job ID: 490-17957-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE**Client: Duke Energy Corporation****Project: Duke Energy-Spartanburg J13010463****Report Number: 490-17957-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7), OS-5E (490-17957-8), Trip Blank-1 (490-17957-9), Trip Blank-2 (490-17957-10), Trip Blank-3 (490-17957-11) and Trip Blank-4 (490-17957-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/31/2013 and 02/01/2013.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: OS-5S (490-17957-6). The sample is considered analyzed outside of analytical holding time due to the insufficient preservation.

Samples MW-13 ISOC (490-17957-1)[5X], OS-25S (490-17957-2)[10X], OS-20S (490-17957-3)[10X] and OS-5S (490-17957-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Job ID: 490-17957-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)**

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7) and OS-5E (490-17957-8) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 01/30/2013 and analyzed on 01/31/2013, 02/01/2013 and 02/06/2013.

2,4,6-Tribromophenol (Surr) and 2-Fluorophenol (Surr) failed the surrogate recovery criteria low for OS-5S (490-17957-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol failed the recovery criteria low for LCS 490-54661/2-A. 2-Fluorobiphenyl (Surr), Nitrobenzene-d5 (Surr) and Phenol-d5 (Surr) failed the surrogate recovery criteria low for LCSD 490-54661/3-A. . Several analytes exceeded the rpd limit.

The laboratory control sample (LCS) for batch 54661 exceeded control limits for several analytes: The associated samples were re-prepared and/or re-analyzed outside holding time. Re-prepped results confirmed original analysis. Both sets of results have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 54661.

Samples MW-13 ISOC (490-17957-1)[2X], OS-25S (490-17957-2)[5X] and OS-20S (490-17957-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7) and OS-5E (490-17957-8) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 01/29/2013.

Samples MW-13 ISOC (490-17957-1)[5X] and OS-5S (490-17957-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample(s) was diluted due to the nature of the sample matrix: OS-5S (490-17957-6). Elevated reporting limits (RLs) are provided.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7) and OS-5E (490-17957-8) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 01/28/2013 and analyzed on 01/28/2013 and 01/29/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 54192.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples MW-13 ISOC (490-17957-1)[2X], OS-25S (490-17957-2)[2X], OS-20S (490-17957-3)[2X] and OS-10S (490-17957-5)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7) and OS-5E (490-17957-8) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/26/2013 and analyzed on 01/31/2013.

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Job ID: 490-17957-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

SULFATE

Samples MW-13 ISOC (490-17957-1), OS-25S (490-17957-2), OS-20S (490-17957-3), OS-15S (490-17957-4), OS-10S (490-17957-5), OS-5S (490-17957-6), OS-10E (490-17957-7) and OS-5E (490-17957-8) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 02/04/2013, 02/05/2013 and 02/06/2013.

Samples MW-13 ISOC (490-17957-1)[200X], OS-25S (490-17957-2)[50X], OS-20S (490-17957-3)[100X], OS-10S (490-17957-5)[100X], OS-5S (490-17957-6)[500X], OS-10E (490-17957-7)[100X] and OS-5E (490-17957-8)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the sulfate analyses. All quality control parameters were within the acceptance limits.



Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:05	1
1,1,1-Trichloroethane	ND		1.00	ug/L			01/31/13 20:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:05	1
1,1,2-Trichloroethane	ND		1.00	ug/L			01/31/13 20:05	1
1,1-Dichloroethane	ND		1.00	ug/L			01/31/13 20:05	1
Diisopropyl ether	ND		2.00	ug/L			01/31/13 20:05	1
1,1-Dichloroethene	ND		1.00	ug/L			01/31/13 20:05	1
1,1-Dichloropropene	ND		1.00	ug/L			01/31/13 20:05	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
1,2,3-Trichloropropane	ND		1.00	ug/L			01/31/13 20:05	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
1,2,4-Trimethylbenzene	27.4		1.00	ug/L			01/31/13 20:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			01/31/13 20:05	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			01/31/13 20:05	1
1,2-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
1,2-Dichloroethane	ND		1.00	ug/L			01/31/13 20:05	1
1,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:05	1
1,3,5-Trimethylbenzene	7.22		1.00	ug/L			01/31/13 20:05	1
1,3-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
1,3-Dichloropropane	ND		1.00	ug/L			01/31/13 20:05	1
1,4-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
2,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:05	1
2-Butanone (MEK)	ND		50.0	ug/L			01/31/13 20:05	1
2-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:05	1
2-Hexanone	ND		10.0	ug/L			01/31/13 20:05	1
4-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			01/31/13 20:05	1
Acetone	261		50.0	ug/L			01/31/13 20:05	1
Benzene	457		5.00	ug/L			02/01/13 15:40	5
Bromobenzene	ND		1.00	ug/L			01/31/13 20:05	1
Bromochloromethane	ND		1.00	ug/L			01/31/13 20:05	1
Bromodichloromethane	ND		1.00	ug/L			01/31/13 20:05	1
Bromoform	ND		1.00	ug/L			01/31/13 20:05	1
Bromomethane	ND		1.00	ug/L			01/31/13 20:05	1
Carbon disulfide	ND		1.00	ug/L			01/31/13 20:05	1
Carbon tetrachloride	ND		1.00	ug/L			01/31/13 20:05	1
Chlorobenzene	ND		1.00	ug/L			01/31/13 20:05	1
Chlorodibromomethane	ND		1.00	ug/L			01/31/13 20:05	1
Chloroethane	ND		1.00	ug/L			01/31/13 20:05	1
Chloroform	ND		1.00	ug/L			01/31/13 20:05	1
Chloromethane	3.32		1.00	ug/L			01/31/13 20:05	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:05	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:05	1
Dibromomethane	ND		1.00	ug/L			01/31/13 20:05	1
Dichlorodifluoromethane	ND		1.00	ug/L			01/31/13 20:05	1
Ethylbenzene	77.7		1.00	ug/L			01/31/13 20:05	1
Hexachlorobutadiene	ND		2.00	ug/L			01/31/13 20:05	1
Isopropylbenzene	1.70		1.00	ug/L			01/31/13 20:05	1
Methyl tert-butyl ether	ND		1.00	ug/L			01/31/13 20:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			01/31/13 20:05	1
Naphthalene	336		25.0	ug/L			02/01/13 15:40	5
n-Butylbenzene	ND		1.00	ug/L			01/31/13 20:05	1
N-Propylbenzene	ND		1.00	ug/L			01/31/13 20:05	1
p-Isopropyltoluene	ND		1.00	ug/L			01/31/13 20:05	1
sec-Butylbenzene	ND		1.00	ug/L			01/31/13 20:05	1
Styrene	6.07		1.00	ug/L			01/31/13 20:05	1
tert-Butylbenzene	ND		1.00	ug/L			01/31/13 20:05	1
Tetrachloroethene	ND		1.00	ug/L			01/31/13 20:05	1
Toluene	255		5.00	ug/L			02/01/13 15:40	5
trans-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:05	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:05	1
Trichloroethene	ND		1.00	ug/L			01/31/13 20:05	1
Trichlorofluoromethane	ND		1.00	ug/L			01/31/13 20:05	1
Vinyl chloride	ND		1.00	ug/L			01/31/13 20:05	1
Xylenes, Total	258		3.00	ug/L			01/31/13 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		01/31/13 20:05	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		02/01/13 15:40	5
4-Bromofluorobenzene (Surr)	97		70 - 130		01/31/13 20:05	1
4-Bromofluorobenzene (Surr)	101		70 - 130		02/01/13 15:40	5
Dibromofluoromethane (Surr)	100		70 - 130		01/31/13 20:05	1
Dibromofluoromethane (Surr)	96		70 - 130		02/01/13 15:40	5
Toluene-d8 (Surr)	92		70 - 130		01/31/13 20:05	1
Toluene-d8 (Surr)	94		70 - 130		02/01/13 15:40	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
1,2,4-Trichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
1,2-Dichlorobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
1,2-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
1,3-Dichlorobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
1,3-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
1,4-Dichlorobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
1,4-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
1-Methylnaphthalene	12.4	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
1-Methylnaphthalene	11.8	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4,5-Trichlorophenol	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,4,5-Trichlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4,6-Trichlorophenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,4,6-Trichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4-Dichlorophenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,4-Dichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4-Dimethylphenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,4-Dimethylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4-Dinitrophenol	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,4-Dinitrophenol	ND	H *	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,4-Dinitrotoluene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2,6-Dinitrotoluene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2,6-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Chloronaphthalene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Chloronaphthalene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Chlorophenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Chlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Methylnaphthalene	6.97	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Methylnaphthalene	6.53	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Methylphenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Nitroaniline	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
2-Nitrophenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
2-Nitrophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
3,3'-Dichlorobenzidine	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
3,3'-Dichlorobenzidine	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
3 & 4 Methylphenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
3 & 4 Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
3-Nitroaniline	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
3-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
4,6-Dinitro-2-methylphenol	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
4,6-Dinitro-2-methylphenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Bromophenyl phenyl ether	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Bromophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Chloro-3-methylphenol	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Chloro-3-methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Chlorophenyl phenyl ether	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Chlorophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Chloroaniline	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Chloroaniline	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Nitroaniline	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
4-Nitrophenol	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
4-Nitrophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
Acenaphthylene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Acenaphthylene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Acenaphthene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Acenaphthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Benzo[a]anthracene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Benzo[a]anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Benzo[a]pyrene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Benzo[a]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Benzo[b]fluoranthene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Benzo[b]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Benzo[g,h,i]perylene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Benzo[g,h,i]perylene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Benzo[k]fluoranthene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Benzo[k]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Bis(2-chloroethoxy)methane	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Bis(2-chloroethoxy)methane	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Bis(2-chloroethyl)ether	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Bis(2-chloroethyl)ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Bis(2-ethylhexyl) phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Bis(2-ethylhexyl) phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
bis (2-chloroisopropyl) ether	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
bis (2-chloroisopropyl) ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Butyl benzyl phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Butyl benzyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Carbazole	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Carbazole	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Chrysene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Chrysene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Cresols	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Cresols	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Dibenz(a,h)anthracene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Dibenz(a,h)anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Dibenzofuran	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Dibenzofuran	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Diethyl phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Diethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Dimethyl phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Dimethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Di-n-butyl phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Di-n-butyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Di-n-octyl phthalate	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Di-n-octyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Fluoranthene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Fluorene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Fluorene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Hexachlorobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Hexachlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Hexachlorobutadiene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Hexachlorobutadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Hexachlorocyclopentadiene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Hexachlorocyclopentadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Hexachloroethane	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Hexachloroethane	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Indeno[1,2,3-cd]pyrene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Indeno[1,2,3-cd]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Isophorone	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Isophorone	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Naphthalene	180	*	4.21	ug/L		01/30/13 09:25	02/01/13 16:58	2
Naphthalene	179	H	11.1	ug/L		02/05/13 12:45	02/06/13 10:53	5
Nitrobenzene	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
N-Nitrosodi-n-propylamine	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
N-Nitrosodi-n-propylamine	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Pentachlorophenol	ND	*	26.3	ug/L		01/30/13 09:25	01/31/13 17:27	1
Pentachlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:26	1
Phenanthrene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Phenanthrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1
Phenol	16.4	*	10.5	ug/L		01/30/13 09:25	01/31/13 17:27	1
Phenol	18.5	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:26	1
Pyrene	ND	*	2.11	ug/L		01/30/13 09:25	01/31/13 17:27	1
Pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		10 - 120	01/30/13 09:25	01/31/13 17:27	1
2,4,6-Tribromophenol (Surr)	83		10 - 120	02/05/13 12:45	02/05/13 19:26	1
2-Fluorobiphenyl (Surr)	48		29 - 120	01/30/13 09:25	01/31/13 17:27	1
2-Fluorobiphenyl (Surr)	49		29 - 120	02/05/13 12:45	02/05/13 19:26	1
2-Fluorophenol (Surr)	28		10 - 120	01/30/13 09:25	01/31/13 17:27	1
2-Fluorophenol (Surr)	29		10 - 120	02/05/13 12:45	02/05/13 19:26	1
Nitrobenzene-d5 (Surr)	45		27 - 120	01/30/13 09:25	01/31/13 17:27	1
Nitrobenzene-d5 (Surr)	47		27 - 120	02/05/13 12:45	02/05/13 19:26	1
Phenol-d5 (Surr)	19		10 - 120	01/30/13 09:25	01/31/13 17:27	1
Phenol-d5 (Surr)	21		10 - 120	02/05/13 12:45	02/05/13 19:26	1
Terphenyl-d14 (Surr)	52		13 - 120	01/30/13 09:25	01/31/13 17:27	1
Terphenyl-d14 (Surr)	62		13 - 120	02/05/13 12:45	02/05/13 19:26	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	2060		500	ug/L			01/29/13 15:06	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	116		50 - 150		01/29/13 15:06	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3490		222	ug/L		01/28/13 12:19	01/29/13 14:26	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	67		50 - 150	01/28/13 12:19	01/29/13 14:26	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7020		200	mg/L			02/05/13 14:50	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:39	1
Chromium	0.0310		0.00500	mg/L		01/26/13 08:04	01/31/13 15:39	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 15:39	1
Copper	0.0425		0.0100	mg/L		01/26/13 08:04	01/31/13 15:39	1
Iron	2.36		0.100	mg/L		01/26/13 08:04	01/31/13 15:39	1
Lead	0.00750		0.00500	mg/L		01/26/13 08:04	01/31/13 15:39	1
Manganese	2.90		0.0150	mg/L		01/26/13 08:04	01/31/13 15:39	1
Nickel	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:39	1
Selenium	0.0311		0.0100	mg/L		01/26/13 08:04	01/31/13 15:39	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:39	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 15:39	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:31	1
1,1,1-Trichloroethane	ND		1.00	ug/L			01/31/13 20:31	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:31	1
1,1,2-Trichloroethane	ND		1.00	ug/L			01/31/13 20:31	1
1,1-Dichloroethane	ND		1.00	ug/L			01/31/13 20:31	1
Diisopropyl ether	ND		2.00	ug/L			01/31/13 20:31	1
1,1-Dichloroethene	ND		1.00	ug/L			01/31/13 20:31	1
1,1-Dichloropropene	ND		1.00	ug/L			01/31/13 20:31	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
1,2,3-Trichloropropane	ND		1.00	ug/L			01/31/13 20:31	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
1,2,4-Trimethylbenzene	43.2		1.00	ug/L			01/31/13 20:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			01/31/13 20:31	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			01/31/13 20:31	1
1,2-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
1,2-Dichloroethane	ND		1.00	ug/L			01/31/13 20:31	1
1,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:31	1
1,3,5-Trimethylbenzene	21.7		1.00	ug/L			01/31/13 20:31	1
1,3-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
1,3-Dichloropropane	ND		1.00	ug/L			01/31/13 20:31	1
1,4-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
2,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:31	1
2-Butanone (MEK)	ND		50.0	ug/L			01/31/13 20:31	1
2-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:31	1
2-Hexanone	ND		10.0	ug/L			01/31/13 20:31	1
4-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:31	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			01/31/13 20:31	1
Acetone	ND		50.0	ug/L			01/31/13 20:31	1
Benzene	17.2		1.00	ug/L			01/31/13 20:31	1
Bromobenzene	ND		1.00	ug/L			01/31/13 20:31	1
Bromochloromethane	ND		1.00	ug/L			01/31/13 20:31	1
Bromodichloromethane	ND		1.00	ug/L			01/31/13 20:31	1
Bromoform	ND		1.00	ug/L			01/31/13 20:31	1
Bromomethane	2.21		1.00	ug/L			01/31/13 20:31	1
Carbon disulfide	9.82		1.00	ug/L			01/31/13 20:31	1
Carbon tetrachloride	ND		1.00	ug/L			01/31/13 20:31	1
Chlorobenzene	ND		1.00	ug/L			01/31/13 20:31	1
Chlorodibromomethane	ND		1.00	ug/L			01/31/13 20:31	1
Chloroethane	ND		1.00	ug/L			01/31/13 20:31	1
Chloroform	ND		1.00	ug/L			01/31/13 20:31	1
Chloromethane	1.95		1.00	ug/L			01/31/13 20:31	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:31	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:31	1
Dibromomethane	ND		1.00	ug/L			01/31/13 20:31	1
Dichlorodifluoromethane	ND		1.00	ug/L			01/31/13 20:31	1
Ethylbenzene	29.6		1.00	ug/L			01/31/13 20:31	1
Hexachlorobutadiene	ND		2.00	ug/L			01/31/13 20:31	1
Isopropylbenzene	6.96		1.00	ug/L			01/31/13 20:31	1
Methyl tert-butyl ether	ND		1.00	ug/L			01/31/13 20:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			01/31/13 20:31	1
Naphthalene	656		50.0	ug/L			02/01/13 16:06	10
n-Butylbenzene	5.32		1.00	ug/L			01/31/13 20:31	1
N-Propylbenzene	4.66		1.00	ug/L			01/31/13 20:31	1
p-Isopropyltoluene	2.35		1.00	ug/L			01/31/13 20:31	1
sec-Butylbenzene	ND		1.00	ug/L			01/31/13 20:31	1
Styrene	ND		1.00	ug/L			01/31/13 20:31	1
tert-Butylbenzene	ND		1.00	ug/L			01/31/13 20:31	1
Tetrachloroethene	ND		1.00	ug/L			01/31/13 20:31	1
Toluene	2.03		1.00	ug/L			01/31/13 20:31	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:31	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:31	1
Trichloroethene	ND		1.00	ug/L			01/31/13 20:31	1
Trichlorofluoromethane	ND		1.00	ug/L			01/31/13 20:31	1
Vinyl chloride	ND		1.00	ug/L			01/31/13 20:31	1
Xylenes, Total	20.0		3.00	ug/L			01/31/13 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		01/31/13 20:31	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		02/01/13 16:06	10
4-Bromofluorobenzene (Surr)	98		70 - 130		01/31/13 20:31	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/01/13 16:06	10
Dibromofluoromethane (Surr)	100		70 - 130		01/31/13 20:31	1
Dibromofluoromethane (Surr)	95		70 - 130		02/01/13 16:06	10
Toluene-d8 (Surr)	93		70 - 130		01/31/13 20:31	1
Toluene-d8 (Surr)	94		70 - 130		02/01/13 16:06	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
1,2,4-Trichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
1,2-Dichlorobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
1,2-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
1,3-Dichlorobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
1,3-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
1,4-Dichlorobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
1,4-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
1-Methylnaphthalene	378	*	10.8	ug/L		01/30/13 09:25	02/01/13 17:19	5
1-Methylnaphthalene	163	H	11.1	ug/L		02/05/13 12:45	02/06/13 11:19	5
2,4,5-Trichlorophenol	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,4,5-Trichlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,4,6-Trichlorophenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,4,6-Trichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,4-Dichlorophenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,4-Dichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,4-Dimethylphenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,4-Dimethylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,4-Dinitrophenol	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,4-Dinitrophenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,4-Dinitrotoluene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2,6-Dinitrotoluene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2,6-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Chloronaphthalene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Chloronaphthalene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Chlorophenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Chlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Methylnaphthalene	61.3	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Methylnaphthalene	40.4	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Methylphenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Nitroaniline	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
2-Nitrophenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
2-Nitrophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
3,3'-Dichlorobenzidine	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
3,3'-Dichlorobenzidine	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
3 & 4 Methylphenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
3 & 4 Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
3-Nitroaniline	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
3-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
4,6-Dinitro-2-methylphenol	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
4,6-Dinitro-2-methylphenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Bromophenyl phenyl ether	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Bromophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Chloro-3-methylphenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Chloro-3-methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Chlorophenyl phenyl ether	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Chlorophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Chloroaniline	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Chloroaniline	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Nitroaniline	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
4-Nitrophenol	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
4-Nitrophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
Acenaphthylene	12.4	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Acenaphthylene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Acenaphthene	74.4	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Acenaphthene	4.50	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Benzo[a]anthracene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Benzo[a]anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Benzo[a]pyrene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Benzo[a]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Benzo[b]fluoranthene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Benzo[b]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Benzo[g,h,i]perylene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Benzo[g,h,i]perylene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Benzo[k]fluoranthene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Benzo[k]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	5.73	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Bis(2-chloroethoxy)methane	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Bis(2-chloroethoxy)methane	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Bis(2-chloroethyl)ether	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Bis(2-chloroethyl)ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Bis(2-ethylhexyl) phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Bis(2-ethylhexyl) phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
bis (2-chloroisopropyl) ether	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
bis (2-chloroisopropyl) ether	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Butyl benzyl phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Butyl benzyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Carbazole	19.5	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Carbazole	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Chrysene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Chrysene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Cresols	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Cresols	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Dibenz(a,h)anthracene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Dibenz(a,h)anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Dibenzofuran	24.6	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Dibenzofuran	15.4	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Diethyl phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Diethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Dimethyl phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Dimethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Di-n-butyl phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Di-n-butyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Di-n-octyl phthalate	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Di-n-octyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Fluoranthene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Fluorene	36.5	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Fluorene	20.6	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Hexachlorobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Hexachlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Hexachlorobutadiene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Hexachlorobutadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Hexachlorocyclopentadiene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Hexachlorocyclopentadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Hexachloroethane	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Hexachloroethane	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Indeno[1,2,3-cd]pyrene	ND	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Indeno[1,2,3-cd]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Isophorone	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Isophorone	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Naphthalene	393	*	10.8	ug/L		01/30/13 09:25	02/01/13 17:19	5
Naphthalene	234	H	11.1	ug/L		02/05/13 12:45	02/06/13 11:19	5
Nitrobenzene	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
N-Nitrosodi-n-propylamine	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
N-Nitrosodi-n-propylamine	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Pentachlorophenol	ND	*	27.0	ug/L		01/30/13 09:25	01/31/13 17:48	1
Pentachlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/05/13 19:53	1
Phenanthrene	37.0	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Phenanthrene	28.6	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Phenol	ND	*	10.8	ug/L		01/30/13 09:25	01/31/13 17:48	1
Phenol	ND	H	11.1	ug/L		02/05/13 12:45	02/05/13 19:53	1
Pyrene	2.45	*	2.16	ug/L		01/30/13 09:25	01/31/13 17:48	1
Pyrene	3.07	H	2.22	ug/L		02/05/13 12:45	02/05/13 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		10 - 120			01/30/13 09:25	01/31/13 17:48	1
2,4,6-Tribromophenol (Surr)	60		10 - 120			02/05/13 12:45	02/05/13 19:53	1
2-Fluorobiphenyl (Surr)	59		29 - 120			01/30/13 09:25	01/31/13 17:48	1
2-Fluorobiphenyl (Surr)	37		29 - 120			02/05/13 12:45	02/05/13 19:53	1
2-Fluorophenol (Surr)	36		10 - 120			01/30/13 09:25	01/31/13 17:48	1
2-Fluorophenol (Surr)	19		10 - 120			02/05/13 12:45	02/05/13 19:53	1
Nitrobenzene-d5 (Surr)	54		27 - 120			01/30/13 09:25	01/31/13 17:48	1
Nitrobenzene-d5 (Surr)	38		27 - 120			02/05/13 12:45	02/05/13 19:53	1
Phenol-d5 (Surr)	24		10 - 120			01/30/13 09:25	01/31/13 17:48	1
Phenol-d5 (Surr)	14		10 - 120			02/05/13 12:45	02/05/13 19:53	1
Terphenyl-d14 (Surr)	73		13 - 120			01/30/13 09:25	01/31/13 17:48	1
Terphenyl-d14 (Surr)	49		13 - 120			02/05/13 12:45	02/05/13 19:53	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	457		100	ug/L			01/29/13 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		50 - 150				01/29/13 16:30	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2940		222	ug/L		01/28/13 12:19	01/29/13 14:42	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	84		50 - 150			01/28/13 12:19	01/29/13 14:42	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2170		50.0	mg/L			02/04/13 15:57	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:43	1
Chromium	0.0606		0.00500	mg/L		01/26/13 08:04	01/31/13 15:43	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0486		0.0200	mg/L		01/26/13 08:04	01/31/13 15:43	1
Copper	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:43	1
Iron	27.3		0.100	mg/L		01/26/13 08:04	01/31/13 15:43	1
Lead	0.0211		0.00500	mg/L		01/26/13 08:04	01/31/13 15:43	1
Manganese	3.31		0.0150	mg/L		01/26/13 08:04	01/31/13 15:43	1
Nickel	0.0257		0.0100	mg/L		01/26/13 08:04	01/31/13 15:43	1
Selenium	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:43	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:43	1
Vanadium	0.0415		0.0200	mg/L		01/26/13 08:04	01/31/13 15:43	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:57	1
1,1,1-Trichloroethane	ND		1.00	ug/L			01/31/13 20:57	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 20:57	1
1,1,2-Trichloroethane	ND		1.00	ug/L			01/31/13 20:57	1
1,1-Dichloroethane	ND		1.00	ug/L			01/31/13 20:57	1
Diisopropyl ether	ND		2.00	ug/L			01/31/13 20:57	1
1,1-Dichloroethene	ND		1.00	ug/L			01/31/13 20:57	1
1,1-Dichloropropene	ND		1.00	ug/L			01/31/13 20:57	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
1,2,3-Trichloropropane	ND		1.00	ug/L			01/31/13 20:57	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
1,2,4-Trimethylbenzene	1.31		1.00	ug/L			01/31/13 20:57	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			01/31/13 20:57	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			01/31/13 20:57	1
1,2-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
1,2-Dichloroethane	ND		1.00	ug/L			01/31/13 20:57	1
1,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:57	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			01/31/13 20:57	1
1,3-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
1,3-Dichloropropane	ND		1.00	ug/L			01/31/13 20:57	1
1,4-Dichlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
2,2-Dichloropropane	ND		1.00	ug/L			01/31/13 20:57	1
2-Butanone (MEK)	ND		50.0	ug/L			01/31/13 20:57	1
2-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:57	1
2-Hexanone	ND		10.0	ug/L			01/31/13 20:57	1
4-Chlorotoluene	ND		1.00	ug/L			01/31/13 20:57	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			01/31/13 20:57	1
Acetone	198		50.0	ug/L			01/31/13 20:57	1
Benzene	2.38		1.00	ug/L			01/31/13 20:57	1
Bromobenzene	ND		1.00	ug/L			01/31/13 20:57	1
Bromochloromethane	ND		1.00	ug/L			01/31/13 20:57	1
Bromodichloromethane	ND		1.00	ug/L			01/31/13 20:57	1
Bromoform	ND		1.00	ug/L			01/31/13 20:57	1
Bromomethane	2.06		1.00	ug/L			01/31/13 20:57	1
Carbon disulfide	19.0		1.00	ug/L			01/31/13 20:57	1
Carbon tetrachloride	ND		1.00	ug/L			01/31/13 20:57	1
Chlorobenzene	ND		1.00	ug/L			01/31/13 20:57	1
Chlorodibromomethane	ND		1.00	ug/L			01/31/13 20:57	1
Chloroethane	ND		1.00	ug/L			01/31/13 20:57	1
Chloroform	ND		1.00	ug/L			01/31/13 20:57	1
Chloromethane	1.86		1.00	ug/L			01/31/13 20:57	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:57	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:57	1
Dibromomethane	ND		1.00	ug/L			01/31/13 20:57	1
Dichlorodifluoromethane	ND		1.00	ug/L			01/31/13 20:57	1
Ethylbenzene	3.28		1.00	ug/L			01/31/13 20:57	1
Hexachlorobutadiene	ND		2.00	ug/L			01/31/13 20:57	1
Isopropylbenzene	1.44		1.00	ug/L			01/31/13 20:57	1
Methyl tert-butyl ether	ND		1.00	ug/L			01/31/13 20:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			01/31/13 20:57	1
Naphthalene	423		50.0	ug/L			02/01/13 16:32	10
n-Butylbenzene	ND		1.00	ug/L			01/31/13 20:57	1
N-Propylbenzene	1.05		1.00	ug/L			01/31/13 20:57	1
p-Isopropyltoluene	ND		1.00	ug/L			01/31/13 20:57	1
sec-Butylbenzene	ND		1.00	ug/L			01/31/13 20:57	1
Styrene	ND		1.00	ug/L			01/31/13 20:57	1
tert-Butylbenzene	ND		1.00	ug/L			01/31/13 20:57	1
Tetrachloroethene	ND		1.00	ug/L			01/31/13 20:57	1
Toluene	ND		1.00	ug/L			01/31/13 20:57	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 20:57	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 20:57	1
Trichloroethene	ND		1.00	ug/L			01/31/13 20:57	1
Trichlorofluoromethane	ND		1.00	ug/L			01/31/13 20:57	1
Vinyl chloride	ND		1.00	ug/L			01/31/13 20:57	1
Xylenes, Total	ND		3.00	ug/L			01/31/13 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		70 - 130		01/31/13 20:57	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 130		02/01/13 16:32	10
<i>4-Bromofluorobenzene (Surr)</i>	101		70 - 130		01/31/13 20:57	1
<i>4-Bromofluorobenzene (Surr)</i>	102		70 - 130		02/01/13 16:32	10
<i>Dibromofluoromethane (Surr)</i>	99		70 - 130		01/31/13 20:57	1
<i>Dibromofluoromethane (Surr)</i>	95		70 - 130		02/01/13 16:32	10
<i>Toluene-d8 (Surr)</i>	91		70 - 130		01/31/13 20:57	1
<i>Toluene-d8 (Surr)</i>	95		70 - 130		02/01/13 16:32	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
1,2,4-Trichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
1,2-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
1,3-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
1,4-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
1-Methylnaphthalene	202	H	11.8	ug/L		02/05/13 12:45	02/06/13 11:46	5
1-Methylnaphthalene	156	*	4.44	ug/L		01/30/13 09:25	02/06/13 19:48	2
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,4,5-Trichlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,4,6-Trichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,4-Dichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,4-Dimethylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,4-Dinitrophenol	ND	H *	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2,6-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Chloronaphthalene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Chlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Methylnaphthalene	76.9	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Methylnaphthalene	96.3	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
2-Nitrophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
3,3'-Dichlorobenzidine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
3 & 4 Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
3-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
4,6-Dinitro-2-methylphenol	ND	H*	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Bromophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Chloro-3-methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Chlorophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Chloroaniline	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
4-Nitrophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Acenaphthylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Acenaphthene	25.5	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Acenaphthene	30.2	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Benzo[a]anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Benzo[a]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Benzo[b]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Benzo[g,h,i]perylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Benzo[k]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Bis(2-chloroethoxy)methane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Bis(2-chloroethyl)ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Bis(2-ethylhexyl) phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
bis (2-chloroisopropyl) ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Butyl benzyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Carbazole	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Chrysene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Cresols	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Dibenz(a,h)anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Dibenzofuran	11.9	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Diethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Dimethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Di-n-butyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Di-n-octyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Fluorene	13.8	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Fluorene	17.7	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Hexachlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Hexachlorobutadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Hexachlorocyclopentadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Hexachloroethane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Indeno[1,2,3-cd]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Isophorone	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Naphthalene	218	H	11.8	ug/L		02/05/13 12:45	02/06/13 11:46	5
Naphthalene	194	*	4.44	ug/L		01/30/13 09:25	02/06/13 19:48	2
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
N-Nitrosodi-n-propylamine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:10	1
Pentachlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:18	1
Phenanthrene	16.2	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Phenanthrene	20.9	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:10	1
Phenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:18	1
Pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:10	1
Pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		10 - 120			01/30/13 09:25	01/31/13 18:10	1
2,4,6-Tribromophenol (Surr)	86		10 - 120			02/05/13 12:45	02/05/13 20:18	1
2-Fluorobiphenyl (Surr)	61		29 - 120			01/30/13 09:25	01/31/13 18:10	1
2-Fluorobiphenyl (Surr)	50		29 - 120			02/05/13 12:45	02/05/13 20:18	1
2-Fluorophenol (Surr)	41		10 - 120			01/30/13 09:25	01/31/13 18:10	1
2-Fluorophenol (Surr)	30		10 - 120			02/05/13 12:45	02/05/13 20:18	1
Nitrobenzene-d5 (Surr)	57		27 - 120			01/30/13 09:25	01/31/13 18:10	1
Nitrobenzene-d5 (Surr)	50		27 - 120			02/05/13 12:45	02/05/13 20:18	1
Phenol-d5 (Surr)	28		10 - 120			01/30/13 09:25	01/31/13 18:10	1
Phenol-d5 (Surr)	22		10 - 120			02/05/13 12:45	02/05/13 20:18	1
Terphenyl-d14 (Surr)	70		13 - 120			01/30/13 09:25	01/31/13 18:10	1
Terphenyl-d14 (Surr)	64		13 - 120			02/05/13 12:45	02/05/13 20:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			01/29/13 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	111		50 - 150				01/29/13 16:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2940		222	ug/L		01/28/13 12:19	01/29/13 14:59	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	91		50 - 150			01/28/13 12:19	01/29/13 14:59	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5220		100	mg/L			02/04/13 16:17	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0120		0.0100	mg/L		01/26/13 08:04	01/31/13 15:46	1
Chromium	0.0927		0.00500	mg/L		01/26/13 08:04	01/31/13 15:46	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0684		0.0200	mg/L		01/26/13 08:04	01/31/13 15:46	1
Copper	0.0114		0.0100	mg/L		01/26/13 08:04	01/31/13 15:46	1
Iron	12.2		0.100	mg/L		01/26/13 08:04	01/31/13 15:46	1
Lead	0.0224		0.00500	mg/L		01/26/13 08:04	01/31/13 15:46	1
Manganese	2.91		0.0150	mg/L		01/26/13 08:04	01/31/13 15:46	1
Nickel	0.0378		0.0100	mg/L		01/26/13 08:04	01/31/13 15:46	1
Selenium	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:46	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:46	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 15:46	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 06:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 06:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 06:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 06:30	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 06:30	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 06:30	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 06:30	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 06:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 06:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
1,2,4-Trimethylbenzene	17.3		1.00	ug/L			02/01/13 06:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 06:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 06:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 06:30	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 06:30	1
1,3,5-Trimethylbenzene	6.50		1.00	ug/L			02/01/13 06:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 06:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 06:30	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 06:30	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 06:30	1
2-Hexanone	ND		10.0	ug/L			02/01/13 06:30	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 06:30	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 06:30	1
Acetone	ND		50.0	ug/L			02/01/13 06:30	1
Benzene	ND		1.00	ug/L			02/01/13 06:30	1
Bromobenzene	ND		1.00	ug/L			02/01/13 06:30	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 06:30	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 06:30	1
Bromoform	ND		1.00	ug/L			02/01/13 06:30	1
Bromomethane	ND		1.00	ug/L			02/01/13 06:30	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 06:30	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 06:30	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 06:30	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 06:30	1
Chloroethane	ND		1.00	ug/L			02/01/13 06:30	1
Chloroform	ND		1.00	ug/L			02/01/13 06:30	1
Chloromethane	ND		1.00	ug/L			02/01/13 06:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 06:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 06:30	1
Dibromomethane	ND		1.00	ug/L			02/01/13 06:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 06:30	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 06:30	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 06:30	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 06:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 06:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 06:30	1
Naphthalene	69.4		5.00	ug/L			02/01/13 06:30	1
n-Butylbenzene	1.90		1.00	ug/L			02/01/13 06:30	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 06:30	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 06:30	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 06:30	1
Styrene	ND		1.00	ug/L			02/01/13 06:30	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 06:30	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 06:30	1
Toluene	ND		1.00	ug/L			02/01/13 06:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 06:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 06:30	1
Trichloroethene	ND		1.00	ug/L			02/01/13 06:30	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 06:30	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 06:30	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 06:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	95		70 - 130		02/01/13 06:30	1
<i>4-Bromofluorobenzene (Surr)</i>	102		70 - 130		02/01/13 06:30	1
<i>Dibromofluoromethane (Surr)</i>	96		70 - 130		02/01/13 06:30	1
<i>Toluene-d8 (Surr)</i>	95		70 - 130		02/01/13 06:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
1,2,4-Trichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
1,2-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
1,3-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
1,4-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
1-Methylnaphthalene	17.5	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
1-Methylnaphthalene	6.28	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4,5-Trichlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4,6-Trichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4-Dichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4-Dimethylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4-Dinitrophenol	ND	H*	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,4-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2,6-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2-Chlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Methylnaphthalene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
2-Methylnaphthalene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2-Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
2-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
2-Nitrophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
3,3'-Dichlorobenzidine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
3 & 4 Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
3-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
4,6-Dinitro-2-methylphenol	ND	H*	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Bromophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Chloro-3-methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Chlorophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Chloroaniline	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
4-Nitrophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Acenaphthylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Acenaphthene	13.1	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Acenaphthene	10.7	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Benzo[a]anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Benzo[a]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Benzo[b]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Benzo[g,h,i]perylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Benzo[k]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Anthracene	2.62	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Bis(2-chloroethoxy)methane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Bis(2-chloroethyl)ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Bis(2-ethylhexyl) phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
bis (2-chloroisopropyl) ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Butyl benzyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Carbazole	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Chrysene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Cresols	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Dibenz(a,h)anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Dibenzofuran	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Diethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Dimethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Di-n-butyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Di-n-octyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Fluoranthene	2.34	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Fluoranthene	2.69	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Fluorene	4.24	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Fluorene	2.97	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Hexachlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Hexachlorobutadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Hexachlorocyclopentadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Hexachloroethane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Indeno[1,2,3-cd]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Isophorone	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Naphthalene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Naphthalene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Nitrobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
N-Nitrosodi-n-propylamine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:31	1
Pentachlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 20:44	1
Phenanthrene	2.87	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Phenanthrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:31	1
Phenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 20:44	1
Pyrene	3.11	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:31	1
Pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 20:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		10 - 120			01/30/13 09:25	01/31/13 18:31	1
2,4,6-Tribromophenol (Surr)	80		10 - 120			02/05/13 12:45	02/05/13 20:44	1
2-Fluorobiphenyl (Surr)	56		29 - 120			01/30/13 09:25	01/31/13 18:31	1
2-Fluorobiphenyl (Surr)	50		29 - 120			02/05/13 12:45	02/05/13 20:44	1
2-Fluorophenol (Surr)	36		10 - 120			01/30/13 09:25	01/31/13 18:31	1
2-Fluorophenol (Surr)	37		10 - 120			02/05/13 12:45	02/05/13 20:44	1
Nitrobenzene-d5 (Surr)	53		27 - 120			01/30/13 09:25	01/31/13 18:31	1
Nitrobenzene-d5 (Surr)	54		27 - 120			02/05/13 12:45	02/05/13 20:44	1
Phenol-d5 (Surr)	23		10 - 120			01/30/13 09:25	01/31/13 18:31	1
Phenol-d5 (Surr)	25		10 - 120			02/05/13 12:45	02/05/13 20:44	1
Terphenyl-d14 (Surr)	76		13 - 120			01/30/13 09:25	01/31/13 18:31	1
Terphenyl-d14 (Surr)	74		13 - 120			02/05/13 12:45	02/05/13 20:44	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			01/29/13 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		50 - 150				01/29/13 17:26	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	839		111	ug/L		01/28/13 12:19	01/28/13 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	90		50 - 150			01/28/13 12:19	01/28/13 23:08	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	41.6		1.00	mg/L			02/04/13 16:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:50	1
Chromium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:50	1
Cobalt	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 15:50	1
Copper	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:50	1
Iron	0.492		0.100	mg/L		01/26/13 08:04	01/31/13 15:50	1
Lead	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:50	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.07		0.0150	mg/L		01/26/13 08:04	01/31/13 15:50	1
Nickel	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:50	1
Selenium	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 15:50	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 15:50	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 15:50	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 06:56	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 06:56	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 06:56	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 06:56	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 06:56	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 06:56	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 06:56	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 06:56	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 06:56	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 06:56	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 06:56	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 06:56	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 06:56	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 06:56	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 06:56	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 06:56	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 06:56	1
2-Hexanone	ND		10.0	ug/L			02/01/13 06:56	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 06:56	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 06:56	1
Acetone	317		50.0	ug/L			02/01/13 06:56	1
Benzene	1.73		1.00	ug/L			02/01/13 06:56	1
Bromobenzene	ND		1.00	ug/L			02/01/13 06:56	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 06:56	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 06:56	1
Bromoform	ND		1.00	ug/L			02/01/13 06:56	1
Bromomethane	21.3		1.00	ug/L			02/01/13 06:56	1
Carbon disulfide	3.73		1.00	ug/L			02/01/13 06:56	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 06:56	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 06:56	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 06:56	1
Chloroethane	ND		1.00	ug/L			02/01/13 06:56	1
Chloroform	ND		1.00	ug/L			02/01/13 06:56	1
Chloromethane	29.0		1.00	ug/L			02/01/13 06:56	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 06:56	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 06:56	1
Dibromomethane	ND		1.00	ug/L			02/01/13 06:56	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 06:56	1
Ethylbenzene	64.2		1.00	ug/L			02/01/13 06:56	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 06:56	1
Isopropylbenzene	8.33		1.00	ug/L			02/01/13 06:56	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 06:56	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 06:56	1
Naphthalene	171		5.00	ug/L			02/01/13 06:56	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 06:56	1
N-Propylbenzene	2.16		1.00	ug/L			02/01/13 06:56	1
p-Isopropyltoluene	1.90		1.00	ug/L			02/01/13 06:56	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 06:56	1
Styrene	ND		1.00	ug/L			02/01/13 06:56	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 06:56	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 06:56	1
Toluene	ND		1.00	ug/L			02/01/13 06:56	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 06:56	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 06:56	1
Trichloroethene	ND		1.00	ug/L			02/01/13 06:56	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 06:56	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 06:56	1
Xylenes, Total	35.3		3.00	ug/L			02/01/13 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		02/01/13 06:56	1
4-Bromofluorobenzene (Surr)	104		70 - 130		02/01/13 06:56	1
Dibromofluoromethane (Surr)	96		70 - 130		02/01/13 06:56	1
Toluene-d8 (Surr)	96		70 - 130		02/01/13 06:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
1,2,4-Trichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
1,2-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
1,3-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
1,4-Dichlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
1-Methylnaphthalene	99.8	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
1-Methylnaphthalene	94.3	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4,5-Trichlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4,6-Trichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4-Dichlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4-Dimethylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4-Dinitrophenol	ND	H*	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,4-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2,6-Dinitrotoluene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2-Chlorophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Methylnaphthalene	75.7	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
2-Methylnaphthalene	69.5	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2-Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
2-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
2-Nitrophenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
3,3'-Dichlorobenzidine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
3 & 4 Methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
3-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
4,6-Dinitro-2-methylphenol	ND	H*	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Bromophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Chloro-3-methylphenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Chlorophenyl phenyl ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Chloroaniline	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Nitroaniline	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
4-Nitrophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Acenaphthylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Acenaphthene	22.0	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Acenaphthene	10.8	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Benzo[a]anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Benzo[a]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Benzo[b]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Benzo[g,h,i]perylene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Benzo[k]fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Bis(2-chloroethoxy)methane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Bis(2-chloroethyl)ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Bis(2-ethylhexyl) phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
bis (2-chloroisopropyl) ether	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Butyl benzyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Carbazole	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Chrysene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Cresols	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Dibenz(a,h)anthracene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Dibenzofuran	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Diethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Dimethyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Di-n-butyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Di-n-octyl phthalate	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Fluoranthene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Fluorene	13.2	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Fluorene	15.2	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Hexachlorobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Hexachlorobutadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Hexachlorocyclopentadiene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Hexachloroethane	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Indeno[1,2,3-cd]pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Isophorone	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Naphthalene	86.6	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Naphthalene	78.4	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Nitrobenzene	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
N-Nitrosodi-n-propylamine	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 18:53	1
Pentachlorophenol	ND	H	29.4	ug/L		02/05/13 12:45	02/05/13 21:11	1
Phenanthrene	16.9	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Phenanthrene	18.2	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 18:53	1
Phenol	ND	H	11.8	ug/L		02/05/13 12:45	02/05/13 21:11	1
Pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 18:53	1
Pyrene	ND	H	2.35	ug/L		02/05/13 12:45	02/05/13 21:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		10 - 120			01/30/13 09:25	01/31/13 18:53	1
2,4,6-Tribromophenol (Surr)	66		10 - 120			02/05/13 12:45	02/05/13 21:11	1
2-Fluorobiphenyl (Surr)	54		29 - 120			01/30/13 09:25	01/31/13 18:53	1
2-Fluorobiphenyl (Surr)	52		29 - 120			02/05/13 12:45	02/05/13 21:11	1
2-Fluorophenol (Surr)	31		10 - 120			01/30/13 09:25	01/31/13 18:53	1
2-Fluorophenol (Surr)	27		10 - 120			02/05/13 12:45	02/05/13 21:11	1
Nitrobenzene-d5 (Surr)	49		27 - 120			01/30/13 09:25	01/31/13 18:53	1
Nitrobenzene-d5 (Surr)	50		27 - 120			02/05/13 12:45	02/05/13 21:11	1
Phenol-d5 (Surr)	26		10 - 120			01/30/13 09:25	01/31/13 18:53	1
Phenol-d5 (Surr)	25		10 - 120			02/05/13 12:45	02/05/13 21:11	1
Terphenyl-d14 (Surr)	68		13 - 120			01/30/13 09:25	01/31/13 18:53	1
Terphenyl-d14 (Surr)	63		13 - 120			02/05/13 12:45	02/05/13 21:11	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	398		100	ug/L			01/29/13 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	117		50 - 150				01/29/13 17:54	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3530		204	ug/L		01/28/13 12:19	01/29/13 15:15	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	78		50 - 150			01/28/13 12:19	01/29/13 15:15	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6470		100	mg/L			02/04/13 16:57	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0421		0.0100	mg/L		01/26/13 08:04	01/31/13 16:02	1
Chromium	0.0148		0.00500	mg/L		01/26/13 08:04	01/31/13 16:02	1
Cobalt	0.114		0.0200	mg/L		01/26/13 08:04	01/31/13 16:02	1
Copper	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:02	1
Iron	ND		0.100	mg/L		01/26/13 08:04	01/31/13 16:02	1
Lead	0.0208		0.00500	mg/L		01/26/13 08:04	01/31/13 16:02	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	3.71		0.0150	mg/L		01/26/13 08:04	01/31/13 16:02	1
Nickel	0.0631		0.0100	mg/L		01/26/13 08:04	01/31/13 16:02	1
Selenium	0.0192		0.0100	mg/L		01/26/13 08:04	01/31/13 16:02	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 16:02	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 16:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 07:22	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 07:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 07:22	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 07:22	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 07:22	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 07:22	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 07:22	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 07:22	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 07:22	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 07:22	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 07:22	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 07:22	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 07:22	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 07:22	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 07:22	1
2-Butanone (MEK)	285		50.0	ug/L			02/01/13 07:22	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 07:22	1
2-Hexanone	ND		10.0	ug/L			02/01/13 07:22	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 07:22	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 07:22	1
Acetone	2830		250	ug/L			02/01/13 16:58	5
Benzene	1.27		1.00	ug/L			02/01/13 07:22	1
Bromobenzene	ND		1.00	ug/L			02/01/13 07:22	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 07:22	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 07:22	1
Bromoform	ND		1.00	ug/L			02/01/13 07:22	1
Bromomethane	44.0		1.00	ug/L			02/01/13 07:22	1
Carbon disulfide	1.79		1.00	ug/L			02/01/13 07:22	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 07:22	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 07:22	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 07:22	1
Chloroethane	ND		1.00	ug/L			02/01/13 07:22	1
Chloroform	ND		1.00	ug/L			02/01/13 07:22	1
Chloromethane	40.6		1.00	ug/L			02/01/13 07:22	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 07:22	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 07:22	1
Dibromomethane	ND		1.00	ug/L			02/01/13 07:22	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 07:22	1
Ethylbenzene	4.17		1.00	ug/L			02/01/13 07:22	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 07:22	1
Isopropylbenzene	1.26		1.00	ug/L			02/01/13 07:22	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 07:22	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 07:22	1
Naphthalene	52.8		5.00	ug/L			02/01/13 07:22	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 07:22	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
Styrene	ND		1.00	ug/L			02/01/13 07:22	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 07:22	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 07:22	1
Toluene	ND		1.00	ug/L			02/01/13 07:22	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 07:22	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 07:22	1
Trichloroethene	ND		1.00	ug/L			02/01/13 07:22	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 07:22	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 07:22	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 130		02/01/13 07:22	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		02/01/13 16:58	5
4-Bromofluorobenzene (Surr)	106		70 - 130		02/01/13 07:22	1
4-Bromofluorobenzene (Surr)	104		70 - 130		02/01/13 16:58	5
Dibromofluoromethane (Surr)	102		70 - 130		02/01/13 07:22	1
Dibromofluoromethane (Surr)	99		70 - 130		02/01/13 16:58	5
Toluene-d8 (Surr)	90		70 - 130		02/01/13 07:22	1
Toluene-d8 (Surr)	92		70 - 130		02/01/13 16:58	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
1,2,4-Trichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
1,2-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
1,3-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
1,4-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
1-Methylnaphthalene	24.9	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
1-Methylnaphthalene	6.42	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,4,5-Trichlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,4,6-Trichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,4-Dichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,4-Dimethylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,4-Dinitrophenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2,6-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Chloronaphthalene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Chlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Methylnaphthalene	18.7	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Methylnaphthalene	3.49	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
2-Nitrophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
3,3'-Dichlorobenzidine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
3 & 4 Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
3-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
4,6-Dinitro-2-methylphenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Bromophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Chloro-3-methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Chlorophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Chloroaniline	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
4-Nitrophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Acenaphthylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Acenaphthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Acenaphthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Benzo[a]anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Benzo[a]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Benzo[b]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Benzo[g,h,i]perylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Benzo[k]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Bis(2-chloroethoxy)methane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Bis(2-chloroethyl)ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Bis(2-ethylhexyl) phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
bis (2-chloroisopropyl) ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Butyl benzyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Carbazole	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Chrysene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Cresols	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Dibenz(a,h)anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Dibenzofuran	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Diethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Dimethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Di-n-butyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Di-n-octyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Fluoranthene	4.95	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Fluorene	10.4	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Fluorene	7.10	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Hexachlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Hexachlorobutadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Hexachlorocyclopentadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Hexachloroethane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Indeno[1,2,3-cd]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Isophorone	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Naphthalene	49.5	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Naphthalene	25.0	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
N-Nitrosodi-n-propylamine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:14	1
Pentachlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:13	1
Phenanthrene	18.0	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Phenanthrene	5.12	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:14	1
Phenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:13	1
Pyrene	5.51	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:14	1
Pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	8	X	10 - 120			01/30/13 09:25	01/31/13 19:14	1
2,4,6-Tribromophenol (Surr)	10		10 - 120			02/05/13 12:45	02/06/13 12:13	1
2-Fluorobiphenyl (Surr)	52		29 - 120			01/30/13 09:25	01/31/13 19:14	1
2-Fluorobiphenyl (Surr)	47		29 - 120			02/05/13 12:45	02/06/13 12:13	1
2-Fluorophenol (Surr)	0	X	10 - 120			01/30/13 09:25	01/31/13 19:14	1
2-Fluorophenol (Surr)	0	X	10 - 120			02/05/13 12:45	02/06/13 12:13	1
Nitrobenzene-d5 (Surr)	50		27 - 120			01/30/13 09:25	01/31/13 19:14	1
Nitrobenzene-d5 (Surr)	45		27 - 120			02/05/13 12:45	02/06/13 12:13	1
Phenol-d5 (Surr)	16		10 - 120			01/30/13 09:25	01/31/13 19:14	1
Phenol-d5 (Surr)	2	X	10 - 120			02/05/13 12:45	02/06/13 12:13	1
Terphenyl-d14 (Surr)	57		13 - 120			01/30/13 09:25	01/31/13 19:14	1
Terphenyl-d14 (Surr)	38		13 - 120			02/05/13 12:45	02/06/13 12:13	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			01/29/13 15:34	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		50 - 150				01/29/13 15:34	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4600		111	ug/L		01/28/13 12:19	01/28/13 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	100		50 - 150			01/28/13 12:19	01/28/13 23:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	27700		500	mg/L			02/06/13 11:25	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0416		0.0100	mg/L		01/26/13 08:04	01/31/13 16:06	1
Chromium	0.769		0.00500	mg/L		01/26/13 08:04	01/31/13 16:06	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.550		0.0200	mg/L		01/26/13 08:04	01/31/13 16:06	1
Copper	0.0153		0.0100	mg/L		01/26/13 08:04	01/31/13 16:06	1
Iron	ND		0.100	mg/L		01/26/13 08:04	01/31/13 16:06	1
Lead	0.0331		0.00500	mg/L		01/26/13 08:04	01/31/13 16:06	1
Manganese	3.30		0.0150	mg/L		01/26/13 08:04	01/31/13 16:06	1
Nickel	0.297		0.0100	mg/L		01/26/13 08:04	01/31/13 16:06	1
Selenium	0.0558		0.0100	mg/L		01/26/13 08:04	01/31/13 16:06	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 16:06	1
Vanadium	0.356		0.0200	mg/L		01/26/13 08:04	01/31/13 16:06	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 07:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 07:48	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 07:48	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 07:48	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 07:48	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 07:48	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 07:48	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 07:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 07:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 07:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 07:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 07:48	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 07:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 07:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 07:48	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 07:48	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 07:48	1
2-Hexanone	ND		10.0	ug/L			02/01/13 07:48	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 07:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 07:48	1
Acetone	ND		50.0	ug/L			02/01/13 07:48	1
Benzene	ND		1.00	ug/L			02/01/13 07:48	1
Bromobenzene	ND		1.00	ug/L			02/01/13 07:48	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 07:48	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 07:48	1
Bromoform	ND		1.00	ug/L			02/01/13 07:48	1
Bromomethane	ND		1.00	ug/L			02/01/13 07:48	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 07:48	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 07:48	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 07:48	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 07:48	1
Chloroethane	ND		1.00	ug/L			02/01/13 07:48	1
Chloroform	ND		1.00	ug/L			02/01/13 07:48	1
Chloromethane	2.57		1.00	ug/L			02/01/13 07:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 07:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 07:48	1
Dibromomethane	ND		1.00	ug/L			02/01/13 07:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 07:48	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 07:48	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 07:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 07:48	1
Naphthalene	ND		5.00	ug/L			02/01/13 07:48	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 07:48	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
Styrene	ND		1.00	ug/L			02/01/13 07:48	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 07:48	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 07:48	1
Toluene	ND		1.00	ug/L			02/01/13 07:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 07:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 07:48	1
Trichloroethene	ND		1.00	ug/L			02/01/13 07:48	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 07:48	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 07:48	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 07:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		02/01/13 07:48	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/01/13 07:48	1
Dibromofluoromethane (Surr)	98		70 - 130		02/01/13 07:48	1
Toluene-d8 (Surr)	95		70 - 130		02/01/13 07:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
1,2,4-Trichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
1,2-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
1,3-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
1,4-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
1-Methylnaphthalene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
1-Methylnaphthalene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4,5-Trichlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4,6-Trichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4-Dichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4-Dimethylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4-Dinitrophenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,4-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2,6-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2-Chlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Methylnaphthalene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
2-Methylnaphthalene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2-Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
2-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
2-Nitrophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
3,3'-Dichlorobenzidine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
3 & 4 Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
3-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
4,6-Dinitro-2-methylphenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Bromophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Chloro-3-methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Chlorophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Chloroaniline	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
4-Nitrophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Acenaphthylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Acenaphthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Acenaphthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Benzo[a]anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Benzo[a]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Benzo[b]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Benzo[g,h,i]perylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Benzo[k]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Bis(2-chloroethoxy)methane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Bis(2-chloroethyl)ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Bis(2-ethylhexyl) phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
bis (2-chloroisopropyl) ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Butyl benzyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Carbazole	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Chrysene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Cresols	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Dibenz(a,h)anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Dibenzofuran	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Diethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Dimethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Di-n-butyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Di-n-octyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Fluorene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Fluorene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Hexachlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Hexachlorobutadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Hexachlorocyclopentadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Hexachloroethane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Indeno[1,2,3-cd]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Isophorone	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Naphthalene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Naphthalene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Nitrobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
N-Nitrosodi-n-propylamine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:35	1
Pentachlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 12:40	1
Phenanthrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Phenanthrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:35	1
Phenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 12:40	1
Pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:35	1
Pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120			01/30/13 09:25	01/31/13 19:35	1
2,4,6-Tribromophenol (Surr)	84		10 - 120			02/05/13 12:45	02/06/13 12:40	1
2-Fluorobiphenyl (Surr)	62		29 - 120			01/30/13 09:25	01/31/13 19:35	1
2-Fluorobiphenyl (Surr)	50		29 - 120			02/05/13 12:45	02/06/13 12:40	1
2-Fluorophenol (Surr)	40		10 - 120			01/30/13 09:25	01/31/13 19:35	1
2-Fluorophenol (Surr)	33		10 - 120			02/05/13 12:45	02/06/13 12:40	1
Nitrobenzene-d5 (Surr)	59		27 - 120			01/30/13 09:25	01/31/13 19:35	1
Nitrobenzene-d5 (Surr)	51		27 - 120			02/05/13 12:45	02/06/13 12:40	1
Phenol-d5 (Surr)	25		10 - 120			01/30/13 09:25	01/31/13 19:35	1
Phenol-d5 (Surr)	21		10 - 120			02/05/13 12:45	02/06/13 12:40	1
Terphenyl-d14 (Surr)	82		13 - 120			01/30/13 09:25	01/31/13 19:35	1
Terphenyl-d14 (Surr)	77		13 - 120			02/05/13 12:45	02/06/13 12:40	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			01/29/13 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150				01/29/13 18:22	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	124		111	ug/L		01/28/13 12:19	01/28/13 23:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	103		50 - 150			01/28/13 12:19	01/28/13 23:55	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	134		100	mg/L			02/05/13 19:20	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:10	1
Chromium	0.00760		0.00500	mg/L		01/26/13 08:04	01/31/13 16:10	1
Cobalt	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 16:10	1
Copper	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:10	1
Iron	1.03		0.100	mg/L		01/26/13 08:04	01/31/13 16:10	1
Lead	0.0115		0.00500	mg/L		01/26/13 08:04	01/31/13 16:10	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.545		0.0150	mg/L		01/26/13 08:04	01/31/13 16:10	1
Nickel	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:10	1
Selenium	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:10	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 16:10	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 16:10	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 08:14	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 08:14	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 08:14	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 08:14	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 08:14	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 08:14	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 08:14	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 08:14	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 08:14	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 08:14	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 08:14	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 08:14	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 08:14	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 08:14	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 08:14	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 08:14	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 08:14	1
2-Hexanone	ND		10.0	ug/L			02/01/13 08:14	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 08:14	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 08:14	1
Acetone	146		50.0	ug/L			02/01/13 08:14	1
Benzene	ND		1.00	ug/L			02/01/13 08:14	1
Bromobenzene	ND		1.00	ug/L			02/01/13 08:14	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 08:14	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 08:14	1
Bromoform	ND		1.00	ug/L			02/01/13 08:14	1
Bromomethane	11.1		1.00	ug/L			02/01/13 08:14	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 08:14	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 08:14	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 08:14	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 08:14	1
Chloroethane	ND		1.00	ug/L			02/01/13 08:14	1
Chloroform	ND		1.00	ug/L			02/01/13 08:14	1
Chloromethane	7.88		1.00	ug/L			02/01/13 08:14	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 08:14	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 08:14	1
Dibromomethane	ND		1.00	ug/L			02/01/13 08:14	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 08:14	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 08:14	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 08:14	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 08:14	1
Naphthalene	ND		5.00	ug/L			02/01/13 08:14	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 08:14	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
Styrene	ND		1.00	ug/L			02/01/13 08:14	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 08:14	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 08:14	1
Toluene	ND		1.00	ug/L			02/01/13 08:14	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 08:14	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 08:14	1
Trichloroethene	ND		1.00	ug/L			02/01/13 08:14	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 08:14	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 08:14	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		02/01/13 08:14	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/01/13 08:14	1
Dibromofluoromethane (Surr)	97		70 - 130		02/01/13 08:14	1
Toluene-d8 (Surr)	94		70 - 130		02/01/13 08:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
1,2,4-Trichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
1,2-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
1,2-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
1,3-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
1,3-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
1,4-Dichlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
1,4-Dichlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
1-Methylnaphthalene	8.54	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
1-Methylnaphthalene	3.12	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4,5-Trichlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4,5-Trichlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4,6-Trichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4,6-Trichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4-Dichlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4-Dichlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4-Dimethylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4-Dimethylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4-Dinitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4-Dinitrophenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,4-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,4-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2,6-Dinitrotoluene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2,6-Dinitrotoluene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Chloronaphthalene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Chlorophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2-Chlorophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Methylnaphthalene	2.27	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
2-Methylnaphthalene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2-Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
2-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
2-Nitrophenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
2-Nitrophenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
3,3'-Dichlorobenzidine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
3,3'-Dichlorobenzidine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
3 & 4 Methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
3 & 4 Methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
3-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
3-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
4,6-Dinitro-2-methylphenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
4,6-Dinitro-2-methylphenol	ND	H*	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Bromophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Bromophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Chloro-3-methylphenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Chloro-3-methylphenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Chlorophenyl phenyl ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Chlorophenyl phenyl ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Chloroaniline	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Chloroaniline	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Nitroaniline	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Nitroaniline	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
4-Nitrophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
4-Nitrophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
Acenaphthylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Acenaphthylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Acenaphthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Acenaphthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Benzo[a]anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Benzo[a]anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Benzo[a]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Benzo[a]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Benzo[b]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Benzo[b]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Benzo[g,h,i]perylene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Benzo[g,h,i]perylene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Benzo[k]fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Benzo[k]fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Bis(2-chloroethoxy)methane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Bis(2-chloroethoxy)methane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Bis(2-chloroethyl)ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Bis(2-ethylhexyl) phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
bis (2-chloroisopropyl) ether	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
bis (2-chloroisopropyl) ether	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Butyl benzyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Butyl benzyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Carbazole	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Carbazole	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Chrysene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Chrysene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Cresols	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Cresols	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Dibenz(a,h)anthracene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Dibenz(a,h)anthracene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Dibenzofuran	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Dibenzofuran	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Diethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Diethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Dimethyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Dimethyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Di-n-butyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Di-n-butyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Di-n-octyl phthalate	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Di-n-octyl phthalate	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Fluoranthene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Fluoranthene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Fluorene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Fluorene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Hexachlorobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Hexachlorobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Hexachlorobutadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Hexachlorobutadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Hexachlorocyclopentadiene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Hexachlorocyclopentadiene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Hexachloroethane	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Hexachloroethane	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Indeno[1,2,3-cd]pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Indeno[1,2,3-cd]pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Isophorone	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Isophorone	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Naphthalene	11.4	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Naphthalene	3.22	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Nitrobenzene	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Nitrobenzene	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
N-Nitrosodi-n-propylamine	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
N-Nitrosodi-n-propylamine	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Pentachlorophenol	ND	*	27.8	ug/L		01/30/13 09:25	01/31/13 19:57	1
Pentachlorophenol	ND	H	27.8	ug/L		02/05/13 12:45	02/06/13 13:07	1
Phenanthrene	4.58	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Phenanthrene	2.68	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Phenol	ND	*	11.1	ug/L		01/30/13 09:25	01/31/13 19:57	1
Phenol	ND	H	11.1	ug/L		02/05/13 12:45	02/06/13 13:07	1
Pyrene	ND	*	2.22	ug/L		01/30/13 09:25	01/31/13 19:57	1
Pyrene	ND	H	2.22	ug/L		02/05/13 12:45	02/06/13 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		10 - 120			01/30/13 09:25	01/31/13 19:57	1
2,4,6-Tribromophenol (Surr)	61		10 - 120			02/05/13 12:45	02/06/13 13:07	1
2-Fluorobiphenyl (Surr)	56		29 - 120			01/30/13 09:25	01/31/13 19:57	1
2-Fluorobiphenyl (Surr)	37		29 - 120			02/05/13 12:45	02/06/13 13:07	1
2-Fluorophenol (Surr)	35		10 - 120			01/30/13 09:25	01/31/13 19:57	1
2-Fluorophenol (Surr)	25		10 - 120			02/05/13 12:45	02/06/13 13:07	1
Nitrobenzene-d5 (Surr)	52		27 - 120			01/30/13 09:25	01/31/13 19:57	1
Nitrobenzene-d5 (Surr)	38		27 - 120			02/05/13 12:45	02/06/13 13:07	1
Phenol-d5 (Surr)	23		10 - 120			01/30/13 09:25	01/31/13 19:57	1
Phenol-d5 (Surr)	16		10 - 120			02/05/13 12:45	02/06/13 13:07	1
Terphenyl-d14 (Surr)	72		13 - 120			01/30/13 09:25	01/31/13 19:57	1
Terphenyl-d14 (Surr)	56		13 - 120			02/05/13 12:45	02/06/13 13:07	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			01/29/13 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		50 - 150				01/29/13 18:50	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	279		111	ug/L		01/28/13 12:19	01/29/13 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 150			01/28/13 12:19	01/29/13 00:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5180		100	mg/L			02/05/13 19:39	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:13	1
Chromium	0.722		0.00500	mg/L		01/26/13 08:04	01/31/13 16:13	1
Cobalt	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 16:13	1
Copper	0.0178		0.0100	mg/L		01/26/13 08:04	01/31/13 16:13	1
Iron	ND		0.100	mg/L		01/26/13 08:04	01/31/13 16:13	1
Lead	0.0670		0.00500	mg/L		01/26/13 08:04	01/31/13 16:13	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0773		0.0150	mg/L		01/26/13 08:04	01/31/13 16:13	1
Nickel	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 16:13	1
Selenium	0.0317		0.0100	mg/L		01/26/13 08:04	01/31/13 16:13	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 16:13	1
Vanadium	0.434		0.0200	mg/L		01/26/13 08:04	01/31/13 16:13	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-17957-9

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 01:44	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 01:44	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 01:44	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 01:44	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 01:44	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 01:44	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 01:44	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 01:44	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 01:44	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 01:44	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 01:44	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 01:44	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 01:44	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 01:44	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 01:44	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 01:44	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 01:44	1
2-Hexanone	ND		10.0	ug/L			02/01/13 01:44	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 01:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 01:44	1
Acetone	ND		50.0	ug/L			02/01/13 01:44	1
Benzene	ND		1.00	ug/L			02/01/13 01:44	1
Bromobenzene	ND		1.00	ug/L			02/01/13 01:44	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 01:44	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 01:44	1
Bromoform	ND		1.00	ug/L			02/01/13 01:44	1
Bromomethane	ND		1.00	ug/L			02/01/13 01:44	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 01:44	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 01:44	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 01:44	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 01:44	1
Chloroethane	ND		1.00	ug/L			02/01/13 01:44	1
Chloroform	ND		1.00	ug/L			02/01/13 01:44	1
Chloromethane	ND		1.00	ug/L			02/01/13 01:44	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 01:44	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 01:44	1
Dibromomethane	ND		1.00	ug/L			02/01/13 01:44	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 01:44	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 01:44	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 01:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-17957-9

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 01:44	1
Naphthalene	ND		5.00	ug/L			02/01/13 01:44	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 01:44	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
Styrene	ND		1.00	ug/L			02/01/13 01:44	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 01:44	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 01:44	1
Toluene	ND		1.00	ug/L			02/01/13 01:44	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 01:44	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 01:44	1
Trichloroethene	ND		1.00	ug/L			02/01/13 01:44	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 01:44	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 01:44	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		02/01/13 01:44	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/01/13 01:44	1
Dibromofluoromethane (Surr)	98		70 - 130		02/01/13 01:44	1
Toluene-d8 (Surr)	96		70 - 130		02/01/13 01:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-17957-10

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 02:10	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 02:10	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 02:10	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 02:10	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 02:10	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 02:10	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 02:10	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 02:10	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 02:10	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 02:10	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 02:10	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 02:10	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 02:10	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 02:10	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 02:10	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 02:10	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 02:10	1
2-Hexanone	ND		10.0	ug/L			02/01/13 02:10	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 02:10	1
Acetone	ND		50.0	ug/L			02/01/13 02:10	1
Benzene	ND		1.00	ug/L			02/01/13 02:10	1
Bromobenzene	ND		1.00	ug/L			02/01/13 02:10	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 02:10	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 02:10	1
Bromoform	ND		1.00	ug/L			02/01/13 02:10	1
Bromomethane	ND		1.00	ug/L			02/01/13 02:10	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 02:10	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 02:10	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 02:10	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 02:10	1
Chloroethane	ND		1.00	ug/L			02/01/13 02:10	1
Chloroform	ND		1.00	ug/L			02/01/13 02:10	1
Chloromethane	ND		1.00	ug/L			02/01/13 02:10	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 02:10	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 02:10	1
Dibromomethane	ND		1.00	ug/L			02/01/13 02:10	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 02:10	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 02:10	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 02:10	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-17957-10

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 02:10	1
Naphthalene	ND		5.00	ug/L			02/01/13 02:10	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 02:10	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
Styrene	ND		1.00	ug/L			02/01/13 02:10	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 02:10	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 02:10	1
Toluene	ND		1.00	ug/L			02/01/13 02:10	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 02:10	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 02:10	1
Trichloroethene	ND		1.00	ug/L			02/01/13 02:10	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 02:10	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 02:10	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		02/01/13 02:10	1
4-Bromofluorobenzene (Surr)	102		70 - 130		02/01/13 02:10	1
Dibromofluoromethane (Surr)	98		70 - 130		02/01/13 02:10	1
Toluene-d8 (Surr)	95		70 - 130		02/01/13 02:10	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-17957-11

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 02:37	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 02:37	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 02:37	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 02:37	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 02:37	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 02:37	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 02:37	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 02:37	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 02:37	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 02:37	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 02:37	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 02:37	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 02:37	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 02:37	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 02:37	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 02:37	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 02:37	1
2-Hexanone	ND		10.0	ug/L			02/01/13 02:37	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 02:37	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 02:37	1
Acetone	ND		50.0	ug/L			02/01/13 02:37	1
Benzene	ND		1.00	ug/L			02/01/13 02:37	1
Bromobenzene	ND		1.00	ug/L			02/01/13 02:37	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 02:37	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 02:37	1
Bromoform	ND		1.00	ug/L			02/01/13 02:37	1
Bromomethane	ND		1.00	ug/L			02/01/13 02:37	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 02:37	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 02:37	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 02:37	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 02:37	1
Chloroethane	ND		1.00	ug/L			02/01/13 02:37	1
Chloroform	ND		1.00	ug/L			02/01/13 02:37	1
Chloromethane	ND		1.00	ug/L			02/01/13 02:37	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 02:37	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 02:37	1
Dibromomethane	ND		1.00	ug/L			02/01/13 02:37	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 02:37	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 02:37	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 02:37	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-17957-11

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 02:37	1
Naphthalene	ND		5.00	ug/L			02/01/13 02:37	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 02:37	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
Styrene	ND		1.00	ug/L			02/01/13 02:37	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 02:37	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 02:37	1
Toluene	ND		1.00	ug/L			02/01/13 02:37	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 02:37	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 02:37	1
Trichloroethene	ND		1.00	ug/L			02/01/13 02:37	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 02:37	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 02:37	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 02:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130				02/01/13 02:37	1
4-Bromofluorobenzene (Surr)	101		70 - 130				02/01/13 02:37	1
Dibromofluoromethane (Surr)	99		70 - 130				02/01/13 02:37	1
Toluene-d8 (Surr)	96		70 - 130				02/01/13 02:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-17957-12

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 03:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 03:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 03:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 03:03	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 03:03	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 03:03	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 03:03	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 03:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 03:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 03:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 03:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,2-Dichloroethane	1.15		1.00	ug/L			02/01/13 03:03	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 03:03	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 03:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 03:03	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 03:03	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 03:03	1
2-Hexanone	ND		10.0	ug/L			02/01/13 03:03	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 03:03	1
Acetone	ND		50.0	ug/L			02/01/13 03:03	1
Benzene	ND		1.00	ug/L			02/01/13 03:03	1
Bromobenzene	ND		1.00	ug/L			02/01/13 03:03	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 03:03	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 03:03	1
Bromoform	ND		1.00	ug/L			02/01/13 03:03	1
Bromomethane	ND		1.00	ug/L			02/01/13 03:03	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 03:03	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 03:03	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 03:03	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 03:03	1
Chloroethane	ND		1.00	ug/L			02/01/13 03:03	1
Chloroform	ND		1.00	ug/L			02/01/13 03:03	1
Chloromethane	ND		1.00	ug/L			02/01/13 03:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 03:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 03:03	1
Dibromomethane	ND		1.00	ug/L			02/01/13 03:03	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 03:03	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 03:03	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 03:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-17957-12

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/01/13 03:03	1
Naphthalene	ND		5.00	ug/L			02/01/13 03:03	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 03:03	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
Styrene	ND		1.00	ug/L			02/01/13 03:03	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 03:03	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 03:03	1
Toluene	ND		1.00	ug/L			02/01/13 03:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 03:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 03:03	1
Trichloroethene	ND		1.00	ug/L			02/01/13 03:03	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 03:03	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 03:03	1
Xylenes, Total	ND		3.00	ug/L			02/01/13 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		02/01/13 03:03	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/01/13 03:03	1
Dibromofluoromethane (Surr)	97		70 - 130		02/01/13 03:03	1
Toluene-d8 (Surr)	96		70 - 130		02/01/13 03:03	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-55048/7

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 13:05	1
1,1,1-Trichloroethane	ND		1.00	ug/L			01/31/13 13:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			01/31/13 13:05	1
1,1,2-Trichloroethane	ND		1.00	ug/L			01/31/13 13:05	1
1,1-Dichloroethane	ND		1.00	ug/L			01/31/13 13:05	1
Diisopropyl ether	ND		2.00	ug/L			01/31/13 13:05	1
1,1-Dichloroethene	ND		1.00	ug/L			01/31/13 13:05	1
1,1-Dichloropropene	ND		1.00	ug/L			01/31/13 13:05	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,2,3-Trichloropropane	ND		1.00	ug/L			01/31/13 13:05	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			01/31/13 13:05	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			01/31/13 13:05	1
1,2-Dichlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,2-Dichloroethane	ND		1.00	ug/L			01/31/13 13:05	1
1,2-Dichloropropane	ND		1.00	ug/L			01/31/13 13:05	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,3-Dichlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
1,3-Dichloropropane	ND		1.00	ug/L			01/31/13 13:05	1
1,4-Dichlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
2,2-Dichloropropane	ND		1.00	ug/L			01/31/13 13:05	1
2-Butanone (MEK)	ND		50.0	ug/L			01/31/13 13:05	1
2-Chlorotoluene	ND		1.00	ug/L			01/31/13 13:05	1
2-Hexanone	ND		10.0	ug/L			01/31/13 13:05	1
4-Chlorotoluene	ND		1.00	ug/L			01/31/13 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			01/31/13 13:05	1
Acetone	ND		50.0	ug/L			01/31/13 13:05	1
Benzene	ND		1.00	ug/L			01/31/13 13:05	1
Bromobenzene	ND		1.00	ug/L			01/31/13 13:05	1
Bromochloromethane	ND		1.00	ug/L			01/31/13 13:05	1
Bromodichloromethane	ND		1.00	ug/L			01/31/13 13:05	1
Bromoform	ND		1.00	ug/L			01/31/13 13:05	1
Bromomethane	ND		1.00	ug/L			01/31/13 13:05	1
Carbon disulfide	ND		1.00	ug/L			01/31/13 13:05	1
Carbon tetrachloride	ND		1.00	ug/L			01/31/13 13:05	1
Chlorobenzene	ND		1.00	ug/L			01/31/13 13:05	1
Chlorodibromomethane	ND		1.00	ug/L			01/31/13 13:05	1
Chloroethane	ND		1.00	ug/L			01/31/13 13:05	1
Chloroform	ND		1.00	ug/L			01/31/13 13:05	1
Chloromethane	ND		1.00	ug/L			01/31/13 13:05	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 13:05	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 13:05	1
Dibromomethane	ND		1.00	ug/L			01/31/13 13:05	1
Dichlorodifluoromethane	ND		1.00	ug/L			01/31/13 13:05	1
Ethylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
Hexachlorobutadiene	ND		2.00	ug/L			01/31/13 13:05	1
Isopropylbenzene	ND		1.00	ug/L			01/31/13 13:05	1

TestAmerica Nashville



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-55048/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			01/31/13 13:05	1
Methylene Chloride	ND		5.00	ug/L			01/31/13 13:05	1
Naphthalene	ND		5.00	ug/L			01/31/13 13:05	1
n-Butylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
N-Propylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
p-Isopropyltoluene	ND		1.00	ug/L			01/31/13 13:05	1
sec-Butylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
Styrene	ND		1.00	ug/L			01/31/13 13:05	1
tert-Butylbenzene	ND		1.00	ug/L			01/31/13 13:05	1
Tetrachloroethene	ND		1.00	ug/L			01/31/13 13:05	1
Toluene	ND		1.00	ug/L			01/31/13 13:05	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			01/31/13 13:05	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			01/31/13 13:05	1
Trichloroethene	ND		1.00	ug/L			01/31/13 13:05	1
Trichlorofluoromethane	ND		1.00	ug/L			01/31/13 13:05	1
Vinyl chloride	ND		1.00	ug/L			01/31/13 13:05	1
* ylenes, Total	ND		3.00	ug/L			01/31/13 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	157		05 - 135		51/31/13 13:5B	1
4-mrofluoroenene (Surr)	153		05 - 135		51/31/13 13:5B	1
Dizrofluoroethane (Surr)	6T		05 - 135		51/31/13 13:5B	1
8oluene-dT (Surr)	6B		05 - 135		51/31/13 13:5B	1

Lab Sample ID: LCS 490-55048/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.14		ug/L		110	74 - 135
1,1,1-Trichloroethane	50.0	55.16		ug/L		110	78 - 135
1,1,2,2-Tetrachloroethane	50.0	55.60		ug/L		111	69 - 131
1,1,2-Trichloroethane	50.0	48.27		ug/L		97	80 - 124
1,1-Dichloroethane	50.0	54.01		ug/L		108	78 - 125
Diisopropyl ether	50.0	51.28		ug/L		103	61 - 142
1,1-Dichloroethene	50.0	62.19		ug/L		124	79 - 124
1,1-Dichloropropene	50.0	51.09		ug/L		102	80 - 122
1,2,3-Trichlorobenzene	50.0	58.93		ug/L		118	62 - 133
1,2,3-Trichloropropane	50.0	55.44		ug/L		111	70 - 131
1,2,4-Trichlorobenzene	50.0	57.90		ug/L		116	63 - 133
1,2,4-Trimethylbenzene	50.0	54.98		ug/L		110	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	55.64		ug/L		111	54 - 125
1,2-Dibromoethane (EDB)	50.0	55.22		ug/L		110	80 - 129
1,2-Dichlorobenzene	50.0	56.09		ug/L		112	80 - 121
1,2-Dichloroethane	50.0	54.31		ug/L		109	77 - 121
1,2-Dichloropropane	50.0	47.24		ug/L		94	75 - 120
1,3,5-Trimethylbenzene	50.0	55.52		ug/L		111	77 - 127
1,3-Dichlorobenzene	50.0	56.62		ug/L		113	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55048/3

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	49.48		ug/L		99	80 - 125
1,4-Dichlorobenzene	50.0	57.01		ug/L		114	80 - 120
2,2-Dichloropropane	50.0	53.41		ug/L		107	43 - 161
2-Butanone (MEK)	250	261.3		ug/L		105	62 - 133
2-Chlorotoluene	50.0	53.22		ug/L		106	75 - 126
2-Hexanone	250	251.3		ug/L		101	60 - 142
4-Chlorotoluene	50.0	54.19		ug/L		108	75 - 130
4-Methyl-2-pentanone (MIBK)	250	245.8		ug/L		98	60 - 137
Acetone	250	268.6		ug/L		107	54 - 145
Benzene	50.0	50.88		ug/L		102	80 - 121
Bromobenzene	50.0	53.89		ug/L		108	68 - 130
Bromochloromethane	50.0	53.33		ug/L		107	78 - 129
Bromodichloromethane	50.0	54.12		ug/L		108	75 - 129
Bromoform	50.0	60.74		ug/L		121	46 - 145
Bromomethane	50.0	57.30		ug/L		115	41 - 150
Carbon disulfide	50.0	52.58		ug/L		105	77 - 126
Carbon tetrachloride	50.0	54.96		ug/L		110	64 - 147
Chlorobenzene	50.0	54.79		ug/L		110	80 - 120
Chlorodibromomethane	50.0	53.66		ug/L		107	69 - 133
Chloroethane	50.0	51.73		ug/L		103	72 - 120
Chloroform	50.0	51.91		ug/L		104	73 - 129
Chloromethane	50.0	45.73		ug/L		91	12 - 150
cis-1,2-Dichloroethene	50.0	50.93		ug/L		102	76 - 125
cis-1,3-Dichloropropene	50.0	48.47		ug/L		97	74 - 140
Dibromomethane	50.0	51.66		ug/L		103	71 - 125
Dichlorodifluoromethane	50.0	48.01		ug/L		96	37 - 127
Ethylbenzene	50.0	57.07		ug/L		114	80 - 130
Hexachlorobutadiene	50.0	52.85		ug/L		106	49 - 146
Isopropylbenzene	50.0	59.14		ug/L		118	80 - 141
Methyl tert-butyl ether	50.0	55.03		ug/L		110	72 - 133
Methylene Chloride	50.0	58.75		ug/L		118	79 - 123
Naphthalene	50.0	58.92		ug/L		118	62 - 138
n-Butylbenzene	50.0	57.07		ug/L		114	68 - 132
N-Propylbenzene	50.0	55.17		ug/L		110	75 - 129
p-Isopropyltoluene	50.0	54.33		ug/L		109	75 - 128
sec-Butylbenzene	50.0	56.01		ug/L		112	76 - 128
Styrene	50.0	58.77		ug/L		118	80 - 127
tert-Butylbenzene	50.0	55.20		ug/L		110	76 - 126
Tetrachloroethene	50.0	53.57		ug/L		107	80 - 126
Toluene	50.0	49.94		ug/L		100	80 - 126
trans-1,2-Dichloroethene	50.0	58.81		ug/L		118	79 - 126
trans-1,3-Dichloropropene	50.0	48.04		ug/L		96	63 - 134
Trichloroethene	50.0	51.87		ug/L		104	80 - 123
Trichlorofluoromethane	50.0	49.51		ug/L		99	65 - 124
Vinyl chloride	50.0	53.01		ug/L		106	68 - 120
* ylenes, Total	150	172.8		ug/L		115	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55048/3

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	151		05 - 135
4-mrofluorobenzenene (Surr)	67		05 - 135
Dizrofluoroethane (Surr)	151		05 - 135
8oluene-dT (Surr)	62		05 - 135

Lab Sample ID: LCSD 490-55048/4

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	54.28		ug/L		109	74 - 135	2	16
1,1,1-Trichloroethane	50.0	53.73		ug/L		107	78 - 135	3	17
1,1,1,2-Tetrachloroethane	50.0	55.89		ug/L		112	69 - 131	1	20
1,1,2-Trichloroethane	50.0	46.41		ug/L		93	80 - 124	4	15
1,1-Dichloroethane	50.0	51.97		ug/L		104	78 - 125	4	17
Diisopropyl ether	50.0	49.53		ug/L		99	61 - 142	3	50
1,1-Dichloroethene	50.0	60.16		ug/L		120	79 - 124	3	17
1,1-Dichloropropene	50.0	49.85		ug/L		100	80 - 122	2	17
1,2,3-Trichlorobenzene	50.0	59.13		ug/L		118	62 - 133	0	25
1,2,3-Trichloropropane	50.0	55.97		ug/L		112	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	58.48		ug/L		117	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	55.40		ug/L		111	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	54.89		ug/L		110	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	56.37		ug/L		113	80 - 129	2	15
1,2-Dichlorobenzene	50.0	55.60		ug/L		111	80 - 121	1	15
1,2-Dichloroethane	50.0	52.04		ug/L		104	77 - 121	4	17
1,2-Dichloropropane	50.0	45.57		ug/L		91	75 - 120	4	17
1,3,5-Trimethylbenzene	50.0	55.75		ug/L		111	77 - 127	0	17
1,3-Dichlorobenzene	50.0	56.13		ug/L		112	80 - 122	1	15
1,3-Dichloropropane	50.0	49.30		ug/L		99	80 - 125	0	14
1,4-Dichlorobenzene	50.0	56.24		ug/L		112	80 - 120	1	15
2,2-Dichloropropane	50.0	51.14		ug/L		102	43 - 161	4	18
2-Butanone (MEK)	250	249.7		ug/L		100	62 - 133	5	19
2-Chlorotoluene	50.0	53.97		ug/L		108	75 - 126	1	17
2-Hexanone	250	250.2		ug/L		100	60 - 142	0	15
4-Chlorotoluene	50.0	53.85		ug/L		108	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	240.2		ug/L		96	60 - 137	2	17
Acetone	250	253.9		ug/L		102	54 - 145	6	21
Benzene	50.0	49.57		ug/L		99	80 - 121	3	17
Bromobenzene	50.0	54.75		ug/L		110	68 - 130	2	20
Bromochloromethane	50.0	51.67		ug/L		103	78 - 129	3	17
Bromodichloromethane	50.0	52.15		ug/L		104	75 - 129	4	18
Bromoform	50.0	59.06		ug/L		118	46 - 145	3	16
Bromomethane	50.0	54.30		ug/L		109	41 - 150	5	50
Carbon disulfide	50.0	50.09		ug/L		100	77 - 126	5	21
Carbon tetrachloride	50.0	54.08		ug/L		108	64 - 147	2	19
Chlorobenzene	50.0	53.49		ug/L		107	80 - 120	2	14
Chlorodibromomethane	50.0	53.01		ug/L		106	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-55048/4

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	49.99		ug/L		100	72 - 120	3	20	
Chloroform	50.0	50.87		ug/L		102	73 - 129	2	18	
Chloromethane	50.0	43.46		ug/L		87	12 - 150	5	31	
cis-1,2-Dichloroethene	50.0	49.04		ug/L		98	76 - 125	4	17	
cis-1,3-Dichloropropene	50.0	48.35		ug/L		97	74 - 140	0	15	
Dibromomethane	50.0	49.17		ug/L		98	71 - 125	5	16	
Dichlorodifluoromethane	50.0	46.36		ug/L		93	37 - 127	3	18	
Ethylbenzene	50.0	56.06		ug/L		112	80 - 130	2	15	
Hexachlorobutadiene	50.0	53.42		ug/L		107	49 - 146	1	23	
Isopropylbenzene	50.0	57.27		ug/L		115	80 - 141	3	16	
Methyl tert-butyl ether	50.0	51.95		ug/L		104	72 - 133	6	16	
Methylene Chloride	50.0	56.24		ug/L		112	79 - 123	4	17	
Naphthalene	50.0	58.45		ug/L		117	62 - 138	1	26	
n-Butylbenzene	50.0	56.55		ug/L		113	68 - 132	1	18	
N-Propylbenzene	50.0	55.26		ug/L		111	75 - 129	0	17	
p-Isopropyltoluene	50.0	54.10		ug/L		108	75 - 128	0	16	
sec-Butylbenzene	50.0	56.09		ug/L		112	76 - 128	0	16	
Styrene	50.0	56.73		ug/L		113	80 - 127	4	24	
tert-Butylbenzene	50.0	55.63		ug/L		111	76 - 126	1	16	
Tetrachloroethene	50.0	52.99		ug/L		106	80 - 126	1	16	
Toluene	50.0	50.15		ug/L		100	80 - 126	0	15	
trans-1,2-Dichloroethene	50.0	56.43		ug/L		113	79 - 126	4	16	
trans-1,3-Dichloropropene	50.0	46.74		ug/L		93	63 - 134	3	14	
Trichloroethene	50.0	49.49		ug/L		99	80 - 123	5	17	
Trichlorofluoromethane	50.0	48.01		ug/L		96	65 - 124	3	18	
Vinyl chloride	50.0	50.96		ug/L		102	68 - 120	4	17	
* ylenes, Total	150	168.2		ug/L		112	80 - 132	3	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	157		05 - 135
4-mrof obluorozen9ene (Surr)	155		05 - 135
Dizrof obluorof ethane (Surr)	155		05 - 135
8oluene-dT (Surr)	6B		05 - 135

Lab Sample ID: 490-18016-B-1 MS

Matrix: Water

Analysis Batch: 55048

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1,1,2-Tetrachloroethane	ND		50.0	52.07		ug/L		104	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	54.18		ug/L		108	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	53.37		ug/L		107	56 - 143	
1,1,2-Trichloroethane	ND		50.0	44.96		ug/L		90	74 - 134	
1,1-Dichloroethane	ND		50.0	51.60		ug/L		103	71 - 139	
Diisopropyl ether	ND		50.0	48.99		ug/L		98	10 - 200	
1,1-Dichloroethene	ND		50.0	59.29		ug/L		119	70 - 142	
1,1-Dichloropropene	ND		50.0	51.06		ug/L		102	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	57.35		ug/L		115	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18016-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	54.89		ug/L		110	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	57.15		ug/L		114	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	55.78		ug/L		112	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	54.88		ug/L		110	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	51.33		ug/L		103	75 - 137
1,2-Dichlorobenzene	ND		50.0	54.45		ug/L		109	79 - 128
1,2-Dichloroethane	ND		50.0	49.75		ug/L		100	64 - 136
1,2-Dichloropropane	ND		50.0	46.00		ug/L		92	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	56.00		ug/L		112	69 - 139
1,3-Dichlorobenzene	ND		50.0	56.18		ug/L		112	77 - 131
1,3-Dichloropropane	ND		50.0	46.35		ug/L		93	72 - 134
1,4-Dichlorobenzene	ND		50.0	55.19		ug/L		110	78 - 126
2,2-Dichloropropane	ND		50.0	50.67		ug/L		101	37 - 175
2-Butanone (MEK)	ND		250	241.3		ug/L		97	50 - 138
2-Chlorotoluene	ND		50.0	54.36		ug/L		109	67 - 138
2-Hexanone	ND		250	232.7		ug/L		93	50 - 150
4-Chlorotoluene	ND		50.0	54.34		ug/L		109	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	227.0		ug/L		91	50 - 147
Acetone	ND		250	226.8		ug/L		91	45 - 141
Benzene	ND		50.0	50.02		ug/L		100	75 - 133
Bromobenzene	ND		50.0	54.09		ug/L		108	60 - 138
Bromochloromethane	ND		50.0	50.34		ug/L		101	67 - 139
Bromodichloromethane	ND		50.0	52.27		ug/L		105	70 - 140
Bromoform	ND		50.0	54.85		ug/L		110	42 - 147
Bromomethane	ND		50.0	53.97		ug/L		108	16 - 163
Carbon disulfide	ND		50.0	50.14		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	54.12		ug/L		108	62 - 164
Chlorobenzene	ND		50.0	52.68		ug/L		105	80 - 129
Chlorodibromomethane	ND		50.0	49.54		ug/L		99	66 - 140
Chloroethane	ND		50.0	48.89		ug/L		98	58 - 137
Chloroform	ND		50.0	49.42		ug/L		99	66 - 138
Chloromethane	ND		50.0	41.46		ug/L		83	10 - 169
cis-1,2-Dichloroethene	ND		50.0	48.10		ug/L		96	68 - 138
cis-1,3-Dichloropropene	ND		50.0	46.33		ug/L		93	71 - 141
Dibromomethane	ND		50.0	48.68		ug/L		97	58 - 140
Dichlorodifluoromethane	ND		50.0	44.21		ug/L		88	40 - 127
Ethylbenzene	ND		50.0	55.60		ug/L		111	79 - 139
Hexachlorobutadiene	ND		50.0	53.19		ug/L		106	45 - 155
Isopropylbenzene	ND		50.0	56.34		ug/L		113	80 - 153
Methyl tert-butyl ether	ND		50.0	50.42		ug/L		101	66 - 141
Methylene Chloride	ND		50.0	55.68		ug/L		111	64 - 139
Naphthalene	ND		50.0	68.47		ug/L		137	55 - 140
n-Butylbenzene	ND		50.0	57.91		ug/L		116	66 - 141
N-Propylbenzene	ND		50.0	56.74		ug/L		113	69 - 142
p-Isopropyltoluene	ND		50.0	55.82		ug/L		112	71 - 137
sec-Butylbenzene	ND		50.0	57.53		ug/L		115	73 - 138
Styrene	ND		50.0	54.72		ug/L		109	61 - 148
tert-Butylbenzene	ND		50.0	56.43		ug/L		113	70 - 138



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18016-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	51.86		ug/L		104	72 - 145
Toluene	ND		50.0	49.70		ug/L		99	75 - 136
trans-1,2-Dichloroethene	ND		50.0	55.86		ug/L		112	66 - 143
trans-1,3-Dichloropropene	ND		50.0	45.09		ug/L		90	59 - 135
Trichloroethene	ND		50.0	51.26		ug/L		103	73 - 144
Trichlorofluoromethane	ND		50.0	48.14		ug/L		96	58 - 139
Vinyl chloride	ND		50.0	49.09		ug/L		98	56 - 129
* ylenes, Total	ND		150	166.9		ug/L		111	74 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	152		05 - 135
4-mrofl obuorozen9ene (Surr)	151		05 - 135
Dizrofl obuoroel ethane (Surr)	6T		05 - 135
8oluene-dT (Surr)	62		05 - 135

Lab Sample ID: 490-18016-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	53.70		ug/L		107	73 - 141	3	16
1,1,1-Trichloroethane	ND		50.0	53.73		ug/L		107	76 - 149	1	17
1,1,1,2-Tetrachloroethane	ND		50.0	55.90		ug/L		112	56 - 143	5	20
1,1,2-Trichloroethane	ND		50.0	46.64		ug/L		93	74 - 134	4	15
1,1-Dichloroethane	ND		50.0	50.89		ug/L		102	71 - 139	1	17
Diisopropyl ether	ND		50.0	48.25		ug/L		97	10 - 200	2	50
1,1-Dichloroethene	ND		50.0	59.32		ug/L		119	70 - 142	0	17
1,1-Dichloropropene	ND		50.0	50.88		ug/L		102	76 - 139	0	17
1,2,3-Trichlorobenzene	ND		50.0	59.10		ug/L		118	55 - 138	3	25
1,2,3-Trichloropropane	ND		50.0	53.80		ug/L		108	53 - 144	2	19
1,2,4-Trichlorobenzene	ND		50.0	58.39		ug/L		117	60 - 136	2	19
1,2,4-Trimethylbenzene	ND		50.0	55.53		ug/L		111	69 - 136	0	16
1,2-Dibromo-3-Chloropropane	ND		50.0	54.93		ug/L		110	52 - 126	0	24
1,2-Dibromoethane (EDB)	ND		50.0	52.41		ug/L		105	75 - 137	2	15
1,2-Dichlorobenzene	ND		50.0	55.08		ug/L		110	79 - 128	1	15
1,2-Dichloroethane	ND		50.0	50.53		ug/L		101	64 - 136	2	17
1,2-Dichloropropane	ND		50.0	46.14		ug/L		92	67 - 131	0	17
1,3,5-Trimethylbenzene	ND		50.0	56.44		ug/L		113	69 - 139	1	17
1,3-Dichlorobenzene	ND		50.0	56.93		ug/L		114	77 - 131	1	15
1,3-Dichloropropane	ND		50.0	48.39		ug/L		97	72 - 134	4	14
1,4-Dichlorobenzene	ND		50.0	56.83		ug/L		114	78 - 126	3	15
2,2-Dichloropropane	ND		50.0	49.84		ug/L		100	37 - 175	2	18
2-Butanone (MEK)	ND		250	250.9		ug/L		100	50 - 138	4	19
2-Chlorotoluene	ND		50.0	54.78		ug/L		110	67 - 138	1	17
2-Hexanone	ND		250	245.8		ug/L		98	50 - 150	5	15
4-Chlorotoluene	ND		50.0	54.52		ug/L		109	69 - 138	0	18
4-Methyl-2-pentanone (MIBK)	ND		250	237.4		ug/L		95	50 - 147	4	17
Acetone	ND		250	242.7		ug/L		97	45 - 141	7	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18016-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55048

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	50.29		ug/L		101	75 - 133	1	17
Bromobenzene	ND		50.0	55.67		ug/L		111	60 - 138	3	20
Bromochloromethane	ND		50.0	50.24		ug/L		100	67 - 139	0	17
Bromodichloromethane	ND		50.0	52.46		ug/L		105	70 - 140	0	18
Bromoform	ND		50.0	55.76		ug/L		112	42 - 147	2	16
Bromomethane	ND		50.0	53.46		ug/L		107	16 - 163	1	50
Carbon disulfide	ND		50.0	48.81		ug/L		98	48 - 152	3	21
Carbon tetrachloride	ND		50.0	54.06		ug/L		108	62 - 164	0	19
Chlorobenzene	ND		50.0	53.12		ug/L		106	80 - 129	1	14
Chlorodibromomethane	ND		50.0	51.26		ug/L		103	66 - 140	3	15
Chloroethane	ND		50.0	48.69		ug/L		97	58 - 137	0	20
Chloroform	ND		50.0	49.40		ug/L		99	66 - 138	0	18
Chloromethane	ND		50.0	40.61		ug/L		81	10 - 169	2	31
cis-1,2-Dichloroethene	ND		50.0	47.79		ug/L		96	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	47.18		ug/L		94	71 - 141	2	15
Dibromomethane	ND		50.0	49.56		ug/L		99	58 - 140	2	16
Dichlorodifluoromethane	ND		50.0	42.90		ug/L		86	40 - 127	3	18
Ethylbenzene	ND		50.0	56.02		ug/L		112	79 - 139	1	15
Hexachlorobutadiene	ND		50.0	55.37		ug/L		111	45 - 155	4	23
Isopropylbenzene	ND		50.0	57.49		ug/L		115	80 - 153	2	16
Methyl tert-butyl ether	ND		50.0	50.61		ug/L		101	66 - 141	0	16
Methylene Chloride	ND		50.0	53.25		ug/L		107	64 - 139	4	17
Naphthalene	ND		50.0	62.84		ug/L		126	55 - 140	9	26
n-Butylbenzene	ND		50.0	58.35		ug/L		117	66 - 141	1	18
N-Propylbenzene	ND		50.0	56.88		ug/L		114	69 - 142	0	17
p-Isopropyltoluene	ND		50.0	56.14		ug/L		112	71 - 137	1	16
sec-Butylbenzene	ND		50.0	58.16		ug/L		116	73 - 138	1	16
Styrene	ND		50.0	55.91		ug/L		112	61 - 148	2	24
tert-Butylbenzene	ND		50.0	56.64		ug/L		113	70 - 138	0	16
Tetrachloroethene	ND		50.0	53.57		ug/L		107	72 - 145	3	16
Toluene	ND		50.0	49.86		ug/L		100	75 - 136	0	15
trans-1,2-Dichloroethene	ND		50.0	54.56		ug/L		109	66 - 143	2	16
trans-1,3-Dichloropropene	ND		50.0	46.05		ug/L		92	59 - 135	2	14
Trichloroethene	ND		50.0	50.43		ug/L		101	73 - 144	2	17
Trichlorofluoromethane	ND		50.0	47.56		ug/L		95	58 - 139	1	18
Vinyl chloride	ND		50.0	48.68		ug/L		97	56 - 129	1	17
* ylenes, Total	ND		150	169.1		ug/L		113	74 - 141	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	152		05 - 135
4-mrofluorobenzenene (Surr)	151		05 - 135
Dizrofluorof ethane (Surr)	67		05 - 135
8oluene-dT (Surr)	63		05 - 135

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-55257/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 01:18	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 01:18	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 01:18	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 01:18	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 01:18	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 01:18	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 01:18	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 01:18	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 01:18	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 01:18	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 01:18	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 01:18	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 01:18	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 01:18	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 01:18	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 01:18	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 01:18	1
2-Hexanone	ND		10.0	ug/L			02/01/13 01:18	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 01:18	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 01:18	1
Acetone	ND		50.0	ug/L			02/01/13 01:18	1
Benzene	ND		1.00	ug/L			02/01/13 01:18	1
Bromobenzene	ND		1.00	ug/L			02/01/13 01:18	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 01:18	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 01:18	1
Bromoform	ND		1.00	ug/L			02/01/13 01:18	1
Bromomethane	ND		1.00	ug/L			02/01/13 01:18	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 01:18	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 01:18	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 01:18	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 01:18	1
Chloroethane	ND		1.00	ug/L			02/01/13 01:18	1
Chloroform	ND		1.00	ug/L			02/01/13 01:18	1
Chloromethane	ND		1.00	ug/L			02/01/13 01:18	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 01:18	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 01:18	1
Dibromomethane	ND		1.00	ug/L			02/01/13 01:18	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 01:18	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 01:18	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 01:18	1

TestAmerica Nashville



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-55257/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 01:18	1
Methylene Chloride	ND		5.00	ug/L			02/01/13 01:18	1
Naphthalene	ND		5.00	ug/L			02/01/13 01:18	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 01:18	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
Styrene	ND		1.00	ug/L			02/01/13 01:18	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 01:18	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 01:18	1
Toluene	ND		1.00	ug/L			02/01/13 01:18	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 01:18	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 01:18	1
Trichloroethene	ND		1.00	ug/L			02/01/13 01:18	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 01:18	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 01:18	1
*ylenes, Total	ND		3.00	ug/L			02/01/13 01:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	155		05 - 135		52/51/13 51:1T	1
4-mrofluoroenene (Surr)	153		05 - 135		52/51/13 51:1T	1
Dizrofluoroethane (Surr)	67		05 - 135		52/51/13 51:1T	1
8oluene-dT (Surr)	67		05 - 135		52/51/13 51:1T	1

Lab Sample ID: LCS 490-55257/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.17		ug/L		102	74 - 135
1,1,1-Trichloroethane	50.0	49.07		ug/L		98	78 - 135
1,1,2,2-Tetrachloroethane	50.0	54.88		ug/L		110	69 - 131
1,1,2-Trichloroethane	50.0	45.73		ug/L		91	80 - 124
1,1-Dichloroethane	50.0	48.32		ug/L		97	78 - 125
Diisopropyl ether	50.0	48.28		ug/L		97	61 - 142
1,1-Dichloroethene	50.0	53.82		ug/L		108	79 - 124
1,1-Dichloropropene	50.0	45.27		ug/L		91	80 - 122
1,2,3-Trichlorobenzene	50.0	56.18		ug/L		112	62 - 133
1,2,3-Trichloropropane	50.0	54.89		ug/L		110	70 - 131
1,2,4-Trichlorobenzene	50.0	54.74		ug/L		109	63 - 133
1,2,4-Trimethylbenzene	50.0	51.40		ug/L		103	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	55.89		ug/L		112	54 - 125
1,2-Dibromoethane (EDB)	50.0	53.15		ug/L		106	80 - 129
1,2-Dichlorobenzene	50.0	52.88		ug/L		106	80 - 121
1,2-Dichloroethane	50.0	49.85		ug/L		100	77 - 121
1,2-Dichloropropane	50.0	44.23		ug/L		88	75 - 120
1,3,5-Trimethylbenzene	50.0	52.55		ug/L		105	77 - 127
1,3-Dichlorobenzene	50.0	52.88		ug/L		106	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55257/4

Matrix: Water

Analysis Batch: 55257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	48.18		ug/L		96	80 - 125
1,4-Dichlorobenzene	50.0	52.86		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	42.87		ug/L		86	43 - 161
2-Butanone (MEK)	250	256.7		ug/L		103	62 - 133
2-Chlorotoluene	50.0	50.80		ug/L		102	75 - 126
2-Hexanone	250	255.9		ug/L		102	60 - 142
4-Chlorotoluene	50.0	50.98		ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	250	244.9		ug/L		98	60 - 137
Acetone	250	250.5		ug/L		100	54 - 145
Benzene	50.0	47.18		ug/L		94	80 - 121
Bromobenzene	50.0	51.92		ug/L		104	68 - 130
Bromochloromethane	50.0	49.87		ug/L		100	78 - 129
Bromodichloromethane	50.0	50.20		ug/L		100	75 - 129
Bromoform	50.0	56.98		ug/L		114	46 - 145
Bromomethane	50.0	49.84		ug/L		100	41 - 150
Carbon disulfide	50.0	44.93		ug/L		90	77 - 126
Carbon tetrachloride	50.0	48.27		ug/L		97	64 - 147
Chlorobenzene	50.0	49.76		ug/L		100	80 - 120
Chlorodibromomethane	50.0	51.11		ug/L		102	69 - 133
Chloroethane	50.0	45.58		ug/L		91	72 - 120
Chloroform	50.0	47.16		ug/L		94	73 - 129
Chloromethane	50.0	39.12		ug/L		78	12 - 150
cis-1,2-Dichloroethene	50.0	44.69		ug/L		89	76 - 125
cis-1,3-Dichloropropene	50.0	46.42		ug/L		93	74 - 140
Dibromomethane	50.0	49.23		ug/L		98	71 - 125
Dichlorodifluoromethane	50.0	40.29		ug/L		81	37 - 127
Ethylbenzene	50.0	50.92		ug/L		102	80 - 130
Hexachlorobutadiene	50.0	46.41		ug/L		93	49 - 146
Isopropylbenzene	50.0	53.75		ug/L		107	80 - 141
Methyl tert-butyl ether	50.0	51.06		ug/L		102	72 - 133
Methylene Chloride	50.0	53.55		ug/L		107	79 - 123
Naphthalene	50.0	57.81		ug/L		116	62 - 138
n-Butylbenzene	50.0	50.88		ug/L		102	68 - 132
N-Propylbenzene	50.0	51.18		ug/L		102	75 - 129
p-Isopropyltoluene	50.0	49.91		ug/L		100	75 - 128
sec-Butylbenzene	50.0	51.42		ug/L		103	76 - 128
Styrene	50.0	55.71		ug/L		111	80 - 127
tert-Butylbenzene	50.0	51.75		ug/L		104	76 - 126
Tetrachloroethene	50.0	47.68		ug/L		95	80 - 126
Toluene	50.0	47.27		ug/L		95	80 - 126
trans-1,2-Dichloroethene	50.0	51.44		ug/L		103	79 - 126
trans-1,3-Dichloropropene	50.0	44.90		ug/L		90	63 - 134
Trichloroethene	50.0	46.08		ug/L		92	80 - 123
Trichlorofluoromethane	50.0	42.05		ug/L		84	65 - 124
Vinyl chloride	50.0	44.53		ug/L		89	68 - 120
*ylenes, Total	150	156.2		ug/L		104	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55257/4

Matrix: Water

Analysis Batch: 55257

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	154		05 - 135
4-mrofluorobenzenene (Surr)	152		05 - 135
Dizrofluoroethane (Surr)	155		05 - 135
8oluene-dT (Surr)	6B		05 - 135

Lab Sample ID: LCSD 490-55257/5

Matrix: Water

Analysis Batch: 55257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.68		ug/L		103	74 - 135	1	16
1,1,1-Trichloroethane	50.0	49.02		ug/L		98	78 - 135	0	17
1,1,2,2-Tetrachloroethane	50.0	54.75		ug/L		110	69 - 131	0	20
1,1,2-Trichloroethane	50.0	47.19		ug/L		94	80 - 124	3	15
1,1-Dichloroethane	50.0	49.07		ug/L		98	78 - 125	2	17
Diisopropyl ether	50.0	49.06		ug/L		98	61 - 142	2	50
1,1-Dichloroethene	50.0	54.52		ug/L		109	79 - 124	1	17
1,1-Dichloropropene	50.0	46.12		ug/L		92	80 - 122	2	17
1,2,3-Trichlorobenzene	50.0	57.95		ug/L		116	62 - 133	3	25
1,2,3-Trichloropropane	50.0	54.93		ug/L		110	70 - 131	0	19
1,2,4-Trichlorobenzene	50.0	57.07		ug/L		114	63 - 133	4	19
1,2,4-Trimethylbenzene	50.0	54.27		ug/L		109	77 - 126	5	16
1,2-Dibromo-3-Chloropropane	50.0	56.53		ug/L		113	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	53.27		ug/L		107	80 - 129	0	15
1,2-Dichlorobenzene	50.0	54.40		ug/L		109	80 - 121	3	15
1,2-Dichloroethane	50.0	49.49		ug/L		99	77 - 121	1	17
1,2-Dichloropropane	50.0	44.70		ug/L		89	75 - 120	1	17
1,3,5-Trimethylbenzene	50.0	53.93		ug/L		108	77 - 127	3	17
1,3-Dichlorobenzene	50.0	55.19		ug/L		110	80 - 122	4	15
1,3-Dichloropropane	50.0	48.61		ug/L		97	80 - 125	1	14
1,4-Dichlorobenzene	50.0	54.64		ug/L		109	80 - 120	3	15
2,2-Dichloropropane	50.0	43.96		ug/L		88	43 - 161	3	18
2-Butanone (MEK)	250	258.0		ug/L		103	62 - 133	1	19
2-Chlorotoluene	50.0	52.68		ug/L		105	75 - 126	4	17
2-Hexanone	250	254.3		ug/L		102	60 - 142	1	15
4-Chlorotoluene	50.0	52.51		ug/L		105	75 - 130	3	18
4-Methyl-2-pentanone (MIBK)	250	245.9		ug/L		98	60 - 137	0	17
Acetone	250	264.6		ug/L		106	54 - 145	5	21
Benzene	50.0	47.81		ug/L		96	80 - 121	1	17
Bromobenzene	50.0	52.75		ug/L		106	68 - 130	2	20
Bromochloromethane	50.0	49.39		ug/L		99	78 - 129	1	17
Bromodichloromethane	50.0	50.26		ug/L		101	75 - 129	0	18
Bromoform	50.0	54.77		ug/L		110	46 - 145	4	16
Bromomethane	50.0	50.62		ug/L		101	41 - 150	2	50
Carbon disulfide	50.0	45.94		ug/L		92	77 - 126	2	21
Carbon tetrachloride	50.0	49.41		ug/L		99	64 - 147	2	19
Chlorobenzene	50.0	51.19		ug/L		102	80 - 120	3	14
Chlorodibromomethane	50.0	51.65		ug/L		103	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-55257/5

Matrix: Water

Analysis Batch: 55257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Chloroethane	50.0	45.66		ug/L		91	72 - 120	0	20	
Chloroform	50.0	47.80		ug/L		96	73 - 129	1	18	
Chloromethane	50.0	39.45		ug/L		79	12 - 150	1	31	
cis-1,2-Dichloroethene	50.0	46.03		ug/L		92	76 - 125	3	17	
cis-1,3-Dichloropropene	50.0	47.15		ug/L		94	74 - 140	2	15	
Dibromomethane	50.0	48.21		ug/L		96	71 - 125	2	16	
Dichlorodifluoromethane	50.0	40.50		ug/L		81	37 - 127	1	18	
Ethylbenzene	50.0	51.97		ug/L		104	80 - 130	2	15	
Hexachlorobutadiene	50.0	49.04		ug/L		98	49 - 146	6	23	
Isopropylbenzene	50.0	55.26		ug/L		111	80 - 141	3	16	
Methyl tert-butyl ether	50.0	51.42		ug/L		103	72 - 133	1	16	
Methylene Chloride	50.0	54.22		ug/L		108	79 - 123	1	17	
Naphthalene	50.0	60.53		ug/L		121	62 - 138	5	26	
n-Butylbenzene	50.0	53.58		ug/L		107	68 - 132	5	18	
N-Propylbenzene	50.0	53.69		ug/L		107	75 - 129	5	17	
p-Isopropyltoluene	50.0	51.94		ug/L		104	75 - 128	4	16	
sec-Butylbenzene	50.0	53.21		ug/L		106	76 - 128	3	16	
Styrene	50.0	54.88		ug/L		110	80 - 127	1	24	
tert-Butylbenzene	50.0	53.38		ug/L		107	76 - 126	3	16	
Tetrachloroethene	50.0	49.35		ug/L		99	80 - 126	3	16	
Toluene	50.0	48.47		ug/L		97	80 - 126	2	15	
trans-1,2-Dichloroethene	50.0	52.31		ug/L		105	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	46.07		ug/L		92	63 - 134	3	14	
Trichloroethene	50.0	46.80		ug/L		94	80 - 123	2	17	
Trichlorofluoromethane	50.0	42.70		ug/L		85	65 - 124	2	18	
Vinyl chloride	50.0	45.20		ug/L		90	68 - 120	1	17	
* ylenes, Total	150	159.6		ug/L		106	80 - 132	2	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	153		05 - 135
4-mrof obluorozen9ene (Surr)	152		05 - 135
Dizrof obluorof ethane (Surr)	6T		05 - 135
8oluene-dT (Surr)	6B		05 - 135

Lab Sample ID: 490-18055-A-1 MS

Matrix: Water

Analysis Batch: 55257

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	50.80		ug/L		102	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	52.66		ug/L		105	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	51.18		ug/L		102	56 - 143	
1,1,2-Trichloroethane	ND		50.0	45.12		ug/L		90	74 - 134	
1,1-Dichloroethane	ND		50.0	51.37		ug/L		103	71 - 139	
Diisopropyl ether	ND		50.0	45.86		ug/L		92	10 - 200	
1,1-Dichloroethene	ND		50.0	58.22		ug/L		116	70 - 142	
1,1-Dichloropropene	ND		50.0	48.56		ug/L		97	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	62.17		ug/L		124	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18055-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	48.82		ug/L		98	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	58.95		ug/L		118	60 - 136
1,2,4-Trimethylbenzene	7.86		50.0	62.36		ug/L		109	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	55.01		ug/L		110	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	47.66		ug/L		95	75 - 137
1,2-Dichlorobenzene	ND		50.0	54.25		ug/L		109	79 - 128
1,2-Dichloroethane	ND		50.0	45.10		ug/L		90	64 - 136
1,2-Dichloropropane	ND		50.0	43.70		ug/L		87	67 - 131
1,3,5-Trimethylbenzene	2.12		50.0	57.96		ug/L		112	69 - 139
1,3-Dichlorobenzene	ND		50.0	56.55		ug/L		113	77 - 131
1,3-Dichloropropane	ND		50.0	44.78		ug/L		90	72 - 134
1,4-Dichlorobenzene	ND		50.0	54.98		ug/L		110	78 - 126
2,2-Dichloropropane	ND		50.0	53.24		ug/L		106	37 - 175
2-Butanone (MEK)	ND		250	209.8		ug/L		84	50 - 138
2-Chlorotoluene	ND		50.0	54.87		ug/L		110	67 - 138
2-Hexanone	ND		250	233.7		ug/L		93	50 - 150
4-Chlorotoluene	ND		50.0	54.27		ug/L		109	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	231.9		ug/L		93	50 - 147
Acetone	ND		250	207.2		ug/L		83	45 - 141
Benzene	ND		50.0	48.80		ug/L		98	75 - 133
Bromobenzene	ND		50.0	53.57		ug/L		107	60 - 138
Bromochloromethane	ND		50.0	45.65		ug/L		91	67 - 139
Bromodichloromethane	ND		50.0	47.68		ug/L		95	70 - 140
Bromoform	ND		50.0	52.32		ug/L		105	42 - 147
Bromomethane	ND		50.0	53.65		ug/L		107	16 - 163
Carbon disulfide	ND		50.0	44.47		ug/L		89	48 - 152
Carbon tetrachloride	ND		50.0	53.06		ug/L		106	62 - 164
Chlorobenzene	ND		50.0	52.04		ug/L		104	80 - 129
Chlorodibromomethane	ND		50.0	46.66		ug/L		93	66 - 140
Chloroethane	ND		50.0	47.73		ug/L		95	58 - 137
Chloroform	ND		50.0	47.96		ug/L		96	66 - 138
Chloromethane	ND		50.0	36.89		ug/L		74	10 - 169
cis-1,2-Dichloroethene	ND		50.0	47.18		ug/L		94	68 - 138
cis-1,3-Dichloropropene	ND		50.0	46.34		ug/L		93	71 - 141
Dibromomethane	ND		50.0	43.21		ug/L		86	58 - 140
Dichlorodifluoromethane	ND		50.0	42.15		ug/L		84	40 - 127
Ethylbenzene	ND		50.0	54.89		ug/L		110	79 - 139
Hexachlorobutadiene	ND		50.0	54.55		ug/L		109	45 - 155
Isopropylbenzene	1.02		50.0	60.40		ug/L		119	80 - 153
Methyl tert-butyl ether	ND		50.0	45.06		ug/L		90	66 - 141
Methylene Chloride	ND		50.0	52.58		ug/L		105	64 - 139
Naphthalene	ND		50.0	66.74		ug/L		133	55 - 140
n-Butylbenzene	ND		50.0	60.76		ug/L		120	66 - 141
N-Propylbenzene	ND		50.0	57.76		ug/L		116	69 - 142
p-Isopropyltoluene	ND		50.0	56.58		ug/L		113	71 - 137
sec-Butylbenzene	1.59		50.0	60.95		ug/L		119	73 - 138
Styrene	ND		50.0	53.38		ug/L		107	61 - 148
tert-Butylbenzene	1.24		50.0	58.18		ug/L		114	70 - 138

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18055-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	52.62		ug/L		105	72 - 145
Toluene	ND		50.0	50.82		ug/L		101	75 - 136
trans-1,2-Dichloroethene	ND		50.0	53.94		ug/L		108	66 - 143
trans-1,3-Dichloropropene	ND		50.0	42.31		ug/L		85	59 - 135
Trichloroethene	ND		50.0	49.93		ug/L		100	73 - 144
Trichlorofluoromethane	ND		50.0	46.38		ug/L		93	58 - 139
Vinyl chloride	ND		50.0	46.63		ug/L		93	56 - 129
* ylenes, Total	ND		150	168.3		ug/L		112	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	67		05 - 135
4-mrof obuorozen9ene (Surr)	12B		05 - 135
Dizrof obuorof ethane (Surr)	6B		05 - 135
8oluene-dT (Surr)	60		05 - 135

Lab Sample ID: 490-18055-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	51.17		ug/L		102	73 - 141	1	16
1,1,1-Trichloroethane	ND		50.0	52.17		ug/L		104	76 - 149	1	17
1,1,1,2,2-Tetrachloroethane	ND		50.0	51.47		ug/L		103	56 - 143	1	20
1,1,2-Trichloroethane	ND		50.0	44.22		ug/L		88	74 - 134	2	15
1,1-Dichloroethane	ND		50.0	49.79		ug/L		100	71 - 139	3	17
Diisopropyl ether	ND		50.0	45.43		ug/L		91	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	56.99		ug/L		114	70 - 142	2	17
1,1-Dichloropropene	ND		50.0	48.64		ug/L		97	76 - 139	0	17
1,2,3-Trichlorobenzene	ND		50.0	63.02		ug/L		126	55 - 138	1	25
1,2,3-Trichloropropane	ND		50.0	51.28		ug/L		103	53 - 144	5	19
1,2,4-Trichlorobenzene	ND		50.0	59.78		ug/L		120	60 - 136	1	19
1,2,4-Trimethylbenzene	7.86		50.0	62.81		ug/L		110	69 - 136	1	16
1,2-Dibromo-3-Chloropropane	ND		50.0	56.71		ug/L		113	52 - 126	3	24
1,2-Dibromoethane (EDB)	ND		50.0	47.77		ug/L		96	75 - 137	0	15
1,2-Dichlorobenzene	ND		50.0	53.08		ug/L		106	79 - 128	2	15
1,2-Dichloroethane	ND		50.0	44.71		ug/L		89	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	44.00		ug/L		88	67 - 131	1	17
1,3,5-Trimethylbenzene	2.12		50.0	57.82		ug/L		111	69 - 139	0	17
1,3-Dichlorobenzene	ND		50.0	55.26		ug/L		111	77 - 131	2	15
1,3-Dichloropropane	ND		50.0	44.95		ug/L		90	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	54.63		ug/L		109	78 - 126	1	15
2,2-Dichloropropane	ND		50.0	52.66		ug/L		105	37 - 175	1	18
2-Butanone (MEK)	ND		250	206.8		ug/L		83	50 - 138	1	19
2-Chlorotoluene	ND		50.0	53.26		ug/L		107	67 - 138	3	17
2-Hexanone	ND		250	235.8		ug/L		94	50 - 150	1	15
4-Chlorotoluene	ND		50.0	53.52		ug/L		107	69 - 138	1	18
4-Methyl-2-pentanone (MIBK)	ND		250	230.5		ug/L		92	50 - 147	1	17
Acetone	ND		250	217.9		ug/L		87	45 - 141	5	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18055-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55257

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	48.46		ug/L		97	75 - 133	1	17
Bromobenzene	ND		50.0	52.20		ug/L		104	60 - 138	3	20
Bromochloromethane	ND		50.0	45.26		ug/L		91	67 - 139	1	17
Bromodichloromethane	ND		50.0	48.28		ug/L		97	70 - 140	1	18
Bromoform	ND		50.0	52.12		ug/L		104	42 - 147	0	16
Bromomethane	ND		50.0	48.70		ug/L		97	16 - 163	10	50
Carbon disulfide	ND		50.0	43.55		ug/L		87	48 - 152	2	21
Carbon tetrachloride	ND		50.0	51.42		ug/L		103	62 - 164	3	19
Chlorobenzene	ND		50.0	51.49		ug/L		103	80 - 129	1	14
Chlorodibromomethane	ND		50.0	47.15		ug/L		94	66 - 140	1	15
Chloroethane	ND		50.0	46.63		ug/L		93	58 - 137	2	20
Chloroform	ND		50.0	47.80		ug/L		96	66 - 138	0	18
Chloromethane	ND		50.0	36.45		ug/L		73	10 - 169	1	31
cis-1,2-Dichloroethene	ND		50.0	46.92		ug/L		94	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	45.81		ug/L		92	71 - 141	1	15
Dibromomethane	ND		50.0	43.44		ug/L		87	58 - 140	1	16
Dichlorodifluoromethane	ND		50.0	39.80		ug/L		80	40 - 127	6	18
Ethylbenzene	ND		50.0	54.41		ug/L		109	79 - 139	1	15
Hexachlorobutadiene	ND		50.0	54.04		ug/L		108	45 - 155	1	23
Isopropylbenzene	1.02		50.0	59.54		ug/L		117	80 - 153	1	16
Methyl tert-butyl ether	ND		50.0	45.12		ug/L		90	66 - 141	0	16
Methylene Chloride	ND		50.0	51.66		ug/L		103	64 - 139	2	17
Naphthalene	ND		50.0	67.74		ug/L		135	55 - 140	1	26
n-Butylbenzene	ND		50.0	59.33		ug/L		117	66 - 141	2	18
N-Propylbenzene	ND		50.0	56.06		ug/L		112	69 - 142	3	17
p-Isopropyltoluene	ND		50.0	55.19		ug/L		110	71 - 137	2	16
sec-Butylbenzene	1.59		50.0	59.57		ug/L		116	73 - 138	2	16
Styrene	ND		50.0	55.47		ug/L		111	61 - 148	4	24
tert-Butylbenzene	1.24		50.0	57.31		ug/L		112	70 - 138	2	16
Tetrachloroethene	ND		50.0	51.83		ug/L		104	72 - 145	2	16
Toluene	ND		50.0	50.30		ug/L		100	75 - 136	1	15
trans-1,2-Dichloroethene	ND		50.0	52.96		ug/L		106	66 - 143	2	16
trans-1,3-Dichloropropene	ND		50.0	42.61		ug/L		85	59 - 135	1	14
Trichloroethene	ND		50.0	48.98		ug/L		98	73 - 144	2	17
Trichlorofluoromethane	ND		50.0	45.64		ug/L		91	58 - 139	2	18
Vinyl chloride	ND		50.0	46.85		ug/L		94	56 - 129	0	17
* ylenes, Total	ND		150	167.1		ug/L		111	74 - 141	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	67		05 - 135
4-mrofluorozenene (Surr)	124		05 - 135
Dizrofluoroethane (Surr)	64		05 - 135
8oluene-dT (Surr)	60		05 - 135

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-55425/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 13:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/01/13 13:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/01/13 13:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/01/13 13:30	1
1,1-Dichloroethane	ND		1.00	ug/L			02/01/13 13:30	1
Diisopropyl ether	ND		2.00	ug/L			02/01/13 13:30	1
1,1-Dichloroethene	ND		1.00	ug/L			02/01/13 13:30	1
1,1-Dichloropropene	ND		1.00	ug/L			02/01/13 13:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/01/13 13:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/01/13 13:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/01/13 13:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,2-Dichloroethane	ND		1.00	ug/L			02/01/13 13:30	1
1,2-Dichloropropane	ND		1.00	ug/L			02/01/13 13:30	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
1,3-Dichloropropane	ND		1.00	ug/L			02/01/13 13:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
2,2-Dichloropropane	ND		1.00	ug/L			02/01/13 13:30	1
2-Butanone (MEK)	ND		50.0	ug/L			02/01/13 13:30	1
2-Chlorotoluene	ND		1.00	ug/L			02/01/13 13:30	1
2-Hexanone	ND		10.0	ug/L			02/01/13 13:30	1
4-Chlorotoluene	ND		1.00	ug/L			02/01/13 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/01/13 13:30	1
Acetone	ND		50.0	ug/L			02/01/13 13:30	1
Benzene	ND		1.00	ug/L			02/01/13 13:30	1
Bromobenzene	ND		1.00	ug/L			02/01/13 13:30	1
Bromochloromethane	ND		1.00	ug/L			02/01/13 13:30	1
Bromodichloromethane	ND		1.00	ug/L			02/01/13 13:30	1
Bromoform	ND		1.00	ug/L			02/01/13 13:30	1
Bromomethane	ND		1.00	ug/L			02/01/13 13:30	1
Carbon disulfide	ND		1.00	ug/L			02/01/13 13:30	1
Carbon tetrachloride	ND		1.00	ug/L			02/01/13 13:30	1
Chlorobenzene	ND		1.00	ug/L			02/01/13 13:30	1
Chlorodibromomethane	ND		1.00	ug/L			02/01/13 13:30	1
Chloroethane	ND		1.00	ug/L			02/01/13 13:30	1
Chloroform	ND		1.00	ug/L			02/01/13 13:30	1
Chloromethane	ND		1.00	ug/L			02/01/13 13:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 13:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 13:30	1
Dibromomethane	ND		1.00	ug/L			02/01/13 13:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/01/13 13:30	1
Ethylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
Hexachlorobutadiene	ND		2.00	ug/L			02/01/13 13:30	1
Isopropylbenzene	ND		1.00	ug/L			02/01/13 13:30	1

TestAmerica Nashville



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-55425/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			02/01/13 13:30	1
Methylene Chloride	ND		5.00	ug/L			02/01/13 13:30	1
Naphthalene	ND		5.00	ug/L			02/01/13 13:30	1
n-Butylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
N-Propylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
p-Isopropyltoluene	ND		1.00	ug/L			02/01/13 13:30	1
sec-Butylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
Styrene	ND		1.00	ug/L			02/01/13 13:30	1
tert-Butylbenzene	ND		1.00	ug/L			02/01/13 13:30	1
Tetrachloroethene	ND		1.00	ug/L			02/01/13 13:30	1
Toluene	ND		1.00	ug/L			02/01/13 13:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/01/13 13:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/01/13 13:30	1
Trichloroethene	ND		1.00	ug/L			02/01/13 13:30	1
Trichlorofluoromethane	ND		1.00	ug/L			02/01/13 13:30	1
Vinyl chloride	ND		1.00	ug/L			02/01/13 13:30	1
* ylenes, Total	ND		3.00	ug/L			02/01/13 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	155		05 - 135		52/51/13 13:35	1
4-mrofluoroenene (Surr)	150		05 - 135		52/51/13 13:35	1
Dizrofluoroethane (Surr)	67		05 - 135		52/51/13 13:35	1
8oluene-dT (Surr)	60		05 - 135		52/51/13 13:35	1

Lab Sample ID: LCS 490-55425/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.97		ug/L		102	74 - 135
1,1,1-Trichloroethane	50.0	49.16		ug/L		98	78 - 135
1,1,2,2-Tetrachloroethane	50.0	47.37		ug/L		95	69 - 131
1,1,2-Trichloroethane	50.0	43.59		ug/L		87	80 - 124
1,1-Dichloroethane	50.0	48.79		ug/L		98	78 - 125
Diisopropyl ether	50.0	44.30		ug/L		89	61 - 142
1,1-Dichloroethene	50.0	55.61		ug/L		111	79 - 124
1,1-Dichloropropene	50.0	46.38		ug/L		93	80 - 122
1,2,3-Trichlorobenzene	50.0	52.98		ug/L		106	62 - 133
1,2,3-Trichloropropane	50.0	47.50		ug/L		95	70 - 131
1,2,4-Trichlorobenzene	50.0	52.81		ug/L		106	63 - 133
1,2,4-Trimethylbenzene	50.0	55.45		ug/L		111	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	49.47		ug/L		99	54 - 125
1,2-Dibromoethane (EDB)	50.0	49.64		ug/L		99	80 - 129
1,2-Dichlorobenzene	50.0	53.39		ug/L		107	80 - 121
1,2-Dichloroethane	50.0	44.05		ug/L		88	77 - 121
1,2-Dichloropropane	50.0	42.92		ug/L		86	75 - 120
1,3,5-Trimethylbenzene	50.0	55.26		ug/L		111	77 - 127
1,3-Dichlorobenzene	50.0	55.20		ug/L		110	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55425/3

Matrix: Water

Analysis Batch: 55425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	45.74		ug/L		91	80 - 125
1,4-Dichlorobenzene	50.0	55.27		ug/L		111	80 - 120
2,2-Dichloropropane	50.0	46.34		ug/L		93	43 - 161
2-Butanone (MEK)	250	208.5		ug/L		83	62 - 133
2-Chlorotoluene	50.0	52.80		ug/L		106	75 - 126
2-Hexanone	250	222.6		ug/L		89	60 - 142
4-Chlorotoluene	50.0	52.79		ug/L		106	75 - 130
4-Methyl-2-pentanone (MIBK)	250	218.5		ug/L		87	60 - 137
Acetone	250	209.6		ug/L		84	54 - 145
Benzene	50.0	47.16		ug/L		94	80 - 121
Bromobenzene	50.0	51.28		ug/L		103	68 - 130
Bromochloromethane	50.0	45.16		ug/L		90	78 - 129
Bromodichloromethane	50.0	47.15		ug/L		94	75 - 129
Bromoform	50.0	50.86		ug/L		102	46 - 145
Bromomethane	50.0	50.57		ug/L		101	41 - 150
Carbon disulfide	50.0	47.02		ug/L		94	77 - 126
Carbon tetrachloride	50.0	48.89		ug/L		98	64 - 147
Chlorobenzene	50.0	51.67		ug/L		103	80 - 120
Chlorodibromomethane	50.0	47.69		ug/L		95	69 - 133
Chloroethane	50.0	47.35		ug/L		95	72 - 120
Chloroform	50.0	46.96		ug/L		94	73 - 129
Chloromethane	50.0	38.94		ug/L		78	12 - 150
cis-1,2-Dichloroethene	50.0	44.68		ug/L		89	76 - 125
cis-1,3-Dichloropropene	50.0	46.11		ug/L		92	74 - 140
Dibromomethane	50.0	42.80		ug/L		86	71 - 125
Dichlorodifluoromethane	50.0	41.10		ug/L		82	37 - 127
Ethylbenzene	50.0	54.44		ug/L		109	80 - 130
Hexachlorobutadiene	50.0	51.84		ug/L		104	49 - 146
Isopropylbenzene	50.0	57.69		ug/L		115	80 - 141
Methyl tert-butyl ether	50.0	43.95		ug/L		88	72 - 133
Methylene Chloride	50.0	51.33		ug/L		103	79 - 123
Naphthalene	50.0	53.00		ug/L		106	62 - 138
n-Butylbenzene	50.0	56.81		ug/L		114	68 - 132
N-Propylbenzene	50.0	54.50		ug/L		109	75 - 129
p-Isopropyltoluene	50.0	55.71		ug/L		111	75 - 128
sec-Butylbenzene	50.0	57.37		ug/L		115	76 - 128
Styrene	50.0	54.94		ug/L		110	80 - 127
tert-Butylbenzene	50.0	55.80		ug/L		112	76 - 126
Tetrachloroethene	50.0	51.19		ug/L		102	80 - 126
Toluene	50.0	50.89		ug/L		102	80 - 126
trans-1,2-Dichloroethene	50.0	52.26		ug/L		105	79 - 126
trans-1,3-Dichloropropene	50.0	43.39		ug/L		87	63 - 134
Trichloroethene	50.0	47.43		ug/L		95	80 - 123
Trichlorofluoromethane	50.0	42.63		ug/L		85	65 - 124
Vinyl chloride	50.0	46.10		ug/L		92	68 - 120
* ylenes, Total	150	164.3		ug/L		110	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-55425/3

Matrix: Water

Analysis Batch: 55425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	6B		05 - 135
4-mrofluorobenzenene (Surr)	6T		05 - 135
Dizrofluoroethane (Surr)	67		05 - 135
8oluene-dT (Surr)	151		05 - 135

Lab Sample ID: LCSD 490-55425/4

Matrix: Water

Analysis Batch: 55425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.40		ug/L		101	74 - 135	1	16
1,1,1-Trichloroethane	50.0	48.78		ug/L		98	78 - 135	1	17
1,1,1,2-Tetrachloroethane	50.0	51.55		ug/L		103	69 - 131	8	20
1,1,2-Trichloroethane	50.0	44.08		ug/L		88	80 - 124	1	15
1,1-Dichloroethane	50.0	48.45		ug/L		97	78 - 125	1	17
Diisopropyl ether	50.0	44.02		ug/L		88	61 - 142	1	50
1,1-Dichloroethene	50.0	55.25		ug/L		110	79 - 124	1	17
1,1-Dichloropropene	50.0	45.13		ug/L		90	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	53.24		ug/L		106	62 - 133	0	25
1,2,3-Trichloropropane	50.0	51.05		ug/L		102	70 - 131	7	19
1,2,4-Trichlorobenzene	50.0	53.76		ug/L		108	63 - 133	2	19
1,2,4-Trimethylbenzene	50.0	55.46		ug/L		111	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	52.12		ug/L		104	54 - 125	5	24
1,2-Dibromoethane (EDB)	50.0	50.28		ug/L		101	80 - 129	1	15
1,2-Dichlorobenzene	50.0	53.50		ug/L		107	80 - 121	0	15
1,2-Dichloroethane	50.0	44.62		ug/L		89	77 - 121	1	17
1,2-Dichloropropane	50.0	41.87		ug/L		84	75 - 120	2	17
1,3,5-Trimethylbenzene	50.0	56.05		ug/L		112	77 - 127	1	17
1,3-Dichlorobenzene	50.0	55.04		ug/L		110	80 - 122	0	15
1,3-Dichloropropane	50.0	46.53		ug/L		93	80 - 125	2	14
1,4-Dichlorobenzene	50.0	54.39		ug/L		109	80 - 120	2	15
2,2-Dichloropropane	50.0	46.21		ug/L		92	43 - 161	0	18
2-Butanone (MEK)	250	211.4		ug/L		85	62 - 133	1	19
2-Chlorotoluene	50.0	55.21		ug/L		110	75 - 126	4	17
2-Hexanone	250	219.7		ug/L		88	60 - 142	1	15
4-Chlorotoluene	50.0	54.94		ug/L		110	75 - 130	4	18
4-Methyl-2-pentanone (MIBK)	250	214.7		ug/L		86	60 - 137	2	17
Acetone	250	216.2		ug/L		86	54 - 145	3	21
Benzene	50.0	46.32		ug/L		93	80 - 121	2	17
Bromobenzene	50.0	53.25		ug/L		107	68 - 130	4	20
Bromochloromethane	50.0	45.63		ug/L		91	78 - 129	1	17
Bromodichloromethane	50.0	46.86		ug/L		94	75 - 129	1	18
Bromoform	50.0	52.14		ug/L		104	46 - 145	2	16
Bromomethane	50.0	49.45		ug/L		99	41 - 150	2	50
Carbon disulfide	50.0	46.59		ug/L		93	77 - 126	1	21
Carbon tetrachloride	50.0	48.46		ug/L		97	64 - 147	1	19
Chlorobenzene	50.0	51.07		ug/L		102	80 - 120	1	14
Chlorodibromomethane	50.0	48.80		ug/L		98	69 - 133	2	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-55425/4

Matrix: Water

Analysis Batch: 55425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Chloroethane	50.0	45.31		ug/L		91	72 - 120	4	20	
Chloroform	50.0	46.22		ug/L		92	73 - 129	2	18	
Chloromethane	50.0	37.76		ug/L		76	12 - 150	3	31	
cis-1,2-Dichloroethene	50.0	44.79		ug/L		90	76 - 125	0	17	
cis-1,3-Dichloropropene	50.0	46.58		ug/L		93	74 - 140	1	15	
Dibromomethane	50.0	43.36		ug/L		87	71 - 125	1	16	
Dichlorodifluoromethane	50.0	39.98		ug/L		80	37 - 127	3	18	
Ethylbenzene	50.0	53.21		ug/L		106	80 - 130	2	15	
Hexachlorobutadiene	50.0	50.68		ug/L		101	49 - 146	2	23	
Isopropylbenzene	50.0	57.64		ug/L		115	80 - 141	0	16	
Methyl tert-butyl ether	50.0	43.72		ug/L		87	72 - 133	1	16	
Methylene Chloride	50.0	51.10		ug/L		102	79 - 123	0	17	
Naphthalene	50.0	52.96		ug/L		106	62 - 138	0	26	
n-Butylbenzene	50.0	55.42		ug/L		111	68 - 132	2	18	
N-Propylbenzene	50.0	55.83		ug/L		112	75 - 129	2	17	
p-Isopropyltoluene	50.0	53.93		ug/L		108	75 - 128	3	16	
sec-Butylbenzene	50.0	55.96		ug/L		112	76 - 128	2	16	
Styrene	50.0	55.51		ug/L		111	80 - 127	1	24	
tert-Butylbenzene	50.0	55.98		ug/L		112	76 - 126	0	16	
Tetrachloroethene	50.0	51.36		ug/L		103	80 - 126	0	16	
Toluene	50.0	50.31		ug/L		101	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	50.97		ug/L		102	79 - 126	3	16	
trans-1,3-Dichloropropene	50.0	44.68		ug/L		89	63 - 134	3	14	
Trichloroethene	50.0	46.33		ug/L		93	80 - 123	2	17	
Trichlorofluoromethane	50.0	42.39		ug/L		85	65 - 124	1	18	
Vinyl chloride	50.0	44.51		ug/L		89	68 - 120	4	17	
* ylenes, Total	150	164.7		ug/L		110	80 - 132	0	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	6B		05 - 135
4-mrof obluorozen9ene (Surr)	154		05 - 135
Dizrof obluorof ethane (Surr)	6B		05 - 135
8oluene-dT (Surr)	155		05 - 135

Lab Sample ID: 490-18014-B-1 MS

Matrix: Water

Analysis Batch: 55425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	47.75		ug/L		96	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	46.15		ug/L		92	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	48.74		ug/L		97	56 - 143	
1,1,2-Trichloroethane	ND		50.0	41.25		ug/L		82	74 - 134	
1,1-Dichloroethane	ND		50.0	44.55		ug/L		89	71 - 139	
Diisopropyl ether	ND		50.0	41.55		ug/L		83	10 - 200	
1,1-Dichloroethene	ND		50.0	49.24		ug/L		98	70 - 142	
1,1-Dichloropropene	ND		50.0	42.72		ug/L		85	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	49.72		ug/L		99	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18014-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	48.58		ug/L		97	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	50.33		ug/L		101	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	52.46		ug/L		105	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	46.59		ug/L		93	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	46.42		ug/L		93	75 - 137
1,2-Dichlorobenzene	ND		50.0	50.63		ug/L		101	79 - 128
1,2-Dichloroethane	ND		50.0	41.82		ug/L		84	64 - 136
1,2-Dichloropropane	ND		50.0	39.52		ug/L		79	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	53.60		ug/L		107	69 - 139
1,3-Dichlorobenzene	ND		50.0	51.96		ug/L		104	77 - 131
1,3-Dichloropropane	ND		50.0	43.28		ug/L		87	72 - 134
1,4-Dichlorobenzene	ND		50.0	52.22		ug/L		104	78 - 126
2,2-Dichloropropane	ND		50.0	43.64		ug/L		87	37 - 175
2-Butanone (MEK)	ND		250	196.7		ug/L		79	50 - 138
2-Chlorotoluene	ND		50.0	52.05		ug/L		104	67 - 138
2-Hexanone	ND		250	206.7		ug/L		83	50 - 150
4-Chlorotoluene	ND		50.0	51.73		ug/L		103	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	202.7		ug/L		81	50 - 147
Acetone	ND		250	209.5		ug/L		84	45 - 141
Benzene	ND		50.0	42.58		ug/L		85	75 - 133
Bromobenzene	ND		50.0	50.20		ug/L		100	60 - 138
Bromochloromethane	ND		50.0	41.09		ug/L		82	67 - 139
Bromodichloromethane	ND		50.0	44.48		ug/L		89	70 - 140
Bromoform	ND		50.0	48.18		ug/L		96	42 - 147
Bromomethane	ND		50.0	38.26		ug/L		77	16 - 163
Carbon disulfide	ND		50.0	34.18		ug/L		68	48 - 152
Carbon tetrachloride	ND		50.0	46.09		ug/L		92	62 - 164
Chlorobenzene	ND		50.0	48.17		ug/L		96	80 - 129
Chlorodibromomethane	ND		50.0	46.10		ug/L		92	66 - 140
Chloroethane	ND		50.0	40.34		ug/L		81	58 - 137
Chloroform	ND		50.0	43.24		ug/L		86	66 - 138
Chloromethane	ND		50.0	30.38		ug/L		61	10 - 169
cis-1,2-Dichloroethene	4.26		50.0	45.38		ug/L		82	68 - 138
cis-1,3-Dichloropropene	ND		50.0	42.63		ug/L		85	71 - 141
Dibromomethane	ND		50.0	40.26		ug/L		81	58 - 140
Dichlorodifluoromethane	ND		50.0	32.52		ug/L		65	40 - 127
Ethylbenzene	ND		50.0	50.38		ug/L		101	79 - 139
Hexachlorobutadiene	ND		50.0	50.92		ug/L		102	45 - 155
Isopropylbenzene	ND		50.0	53.28		ug/L		107	80 - 153
Methyl tert-butyl ether	ND		50.0	41.80		ug/L		84	66 - 141
Methylene Chloride	ND		50.0	46.61		ug/L		93	64 - 139
Naphthalene	ND		50.0	49.53		ug/L		99	55 - 140
n-Butylbenzene	ND		50.0	54.72		ug/L		109	66 - 141
N-Propylbenzene	ND		50.0	53.90		ug/L		108	69 - 142
p-Isopropyltoluene	ND		50.0	52.69		ug/L		105	71 - 137
sec-Butylbenzene	ND		50.0	55.04		ug/L		110	73 - 138
Styrene	ND		50.0	51.11		ug/L		102	61 - 148
tert-Butylbenzene	ND		50.0	54.33		ug/L		109	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18014-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	48.45		ug/L		97	72 - 145
Toluene	ND		50.0	46.46		ug/L		93	75 - 136
trans-1,2-Dichloroethene	ND		50.0	45.93		ug/L		92	66 - 143
trans-1,3-Dichloropropene	ND		50.0	41.21		ug/L		82	59 - 135
Trichloroethene	26.1		50.0	69.64		ug/L		87	73 - 144
Trichlorofluoromethane	ND		50.0	39.58		ug/L		79	58 - 139
Vinyl chloride	ND		50.0	38.46		ug/L		77	56 - 129
* ylenes, Total	ND		150	154.2		ug/L		103	74 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	66		05 - 135
4-mrofl obluorozen9ene (Surr)	153		05 - 135
Dizrofl obluorof ethane (Surr)	67		05 - 135
8oluene-dT (Surr)	66		05 - 135

Lab Sample ID: 490-18014-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	49.60		ug/L		99	73 - 141	4	16
1,1,1-Trichloroethane	ND		50.0	47.73		ug/L		95	76 - 149	3	17
1,1,1,2-Tetrachloroethane	ND		50.0	49.16		ug/L		98	56 - 143	1	20
1,1,2-Trichloroethane	ND		50.0	42.64		ug/L		85	74 - 134	3	15
1,1-Dichloroethane	ND		50.0	46.01		ug/L		92	71 - 139	3	17
Diisopropyl ether	ND		50.0	41.92		ug/L		84	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	51.01		ug/L		102	70 - 142	4	17
1,1-Dichloropropene	ND		50.0	42.83		ug/L		86	76 - 139	0	17
1,2,3-Trichlorobenzene	ND		50.0	51.76		ug/L		104	55 - 138	4	25
1,2,3-Trichloropropane	ND		50.0	49.53		ug/L		99	53 - 144	2	19
1,2,4-Trichlorobenzene	ND		50.0	51.78		ug/L		104	60 - 136	3	19
1,2,4-Trimethylbenzene	ND		50.0	53.21		ug/L		106	69 - 136	1	16
1,2-Dibromo-3-Chloropropane	ND		50.0	48.66		ug/L		97	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND		50.0	47.58		ug/L		95	75 - 137	2	15
1,2-Dichlorobenzene	ND		50.0	51.29		ug/L		103	79 - 128	1	15
1,2-Dichloroethane	ND		50.0	42.24		ug/L		84	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	40.23		ug/L		80	67 - 131	2	17
1,3,5-Trimethylbenzene	ND		50.0	53.83		ug/L		108	69 - 139	0	17
1,3-Dichlorobenzene	ND		50.0	53.25		ug/L		106	77 - 131	2	15
1,3-Dichloropropane	ND		50.0	43.74		ug/L		87	72 - 134	1	14
1,4-Dichlorobenzene	ND		50.0	52.57		ug/L		105	78 - 126	1	15
2,2-Dichloropropane	ND		50.0	45.03		ug/L		90	37 - 175	3	18
2-Butanone (MEK)	ND		250	203.5		ug/L		81	50 - 138	3	19
2-Chlorotoluene	ND		50.0	52.22		ug/L		104	67 - 138	0	17
2-Hexanone	ND		250	210.6		ug/L		84	50 - 150	2	15
4-Chlorotoluene	ND		50.0	51.77		ug/L		104	69 - 138	0	18
4-Methyl-2-pentanone (MIBK)	ND		250	205.0		ug/L		82	50 - 147	1	17
Acetone	ND		250	215.1		ug/L		86	45 - 141	3	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-18014-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 55425

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	43.36		ug/L		87	75 - 133	2	17
Bromobenzene	ND		50.0	51.39		ug/L		103	60 - 138	2	20
Bromochloromethane	ND		50.0	43.12		ug/L		86	67 - 139	5	17
Bromodichloromethane	ND		50.0	45.03		ug/L		90	70 - 140	1	18
Bromoform	ND		50.0	49.78		ug/L		100	42 - 147	3	16
Bromomethane	ND		50.0	40.61		ug/L		81	16 - 163	6	50
Carbon disulfide	ND		50.0	34.51		ug/L		69	48 - 152	1	21
Carbon tetrachloride	ND		50.0	47.72		ug/L		95	62 - 164	3	19
Chlorobenzene	ND		50.0	49.61		ug/L		99	80 - 129	3	14
Chlorodibromomethane	ND		50.0	46.54		ug/L		93	66 - 140	1	15
Chloroethane	ND		50.0	41.23		ug/L		82	58 - 137	2	20
Chloroform	ND		50.0	44.72		ug/L		89	66 - 138	3	18
Chloromethane	ND		50.0	30.84		ug/L		62	10 - 169	2	31
cis-1,2-Dichloroethene	4.26		50.0	46.60		ug/L		85	68 - 138	3	17
cis-1,3-Dichloropropene	ND		50.0	43.68		ug/L		87	71 - 141	2	15
Dibromomethane	ND		50.0	40.07		ug/L		80	58 - 140	0	16
Dichlorodifluoromethane	ND		50.0	31.01		ug/L		62	40 - 127	5	18
Ethylbenzene	ND		50.0	51.54		ug/L		103	79 - 139	2	15
Hexachlorobutadiene	ND		50.0	51.40		ug/L		103	45 - 155	1	23
Isopropylbenzene	ND		50.0	56.03		ug/L		112	80 - 153	5	16
Methyl tert-butyl ether	ND		50.0	42.65		ug/L		85	66 - 141	2	16
Methylene Chloride	ND		50.0	47.35		ug/L		95	64 - 139	2	17
Naphthalene	ND		50.0	51.24		ug/L		102	55 - 140	3	26
n-Butylbenzene	ND		50.0	55.55		ug/L		111	66 - 141	1	18
N-Propylbenzene	ND		50.0	54.60		ug/L		109	69 - 142	1	17
p-Isopropyltoluene	ND		50.0	53.27		ug/L		107	71 - 137	1	16
sec-Butylbenzene	ND		50.0	55.75		ug/L		111	73 - 138	1	16
Styrene	ND		50.0	52.64		ug/L		105	61 - 148	3	24
tert-Butylbenzene	ND		50.0	55.64		ug/L		111	70 - 138	2	16
Tetrachloroethene	ND		50.0	49.30		ug/L		99	72 - 145	2	16
Toluene	ND		50.0	47.28		ug/L		95	75 - 136	2	15
trans-1,2-Dichloroethene	ND		50.0	46.24		ug/L		92	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	41.61		ug/L		83	59 - 135	1	14
Trichloroethene	26.1		50.0	70.83		ug/L		89	73 - 144	2	17
Trichlorofluoromethane	ND		50.0	40.42		ug/L		81	58 - 139	2	18
Vinyl chloride	ND		50.0	38.72		ug/L		77	56 - 129	1	17
* ylenes, Total	ND		150	157.1		ug/L		105	74 - 141	2	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	67		05 - 135
4-brofluorozenene (Surr)	153		05 - 135
Dibrofluoroethane (Surr)	67		05 - 135
Boluene-dT (Surr)	67		05 - 135

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-54661/1-A

Matrix: Water

Analysis Batch: 55050

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54661

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,2,4-Trichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,2-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,2-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,3-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,3-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,4-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1,4-Dichlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
1-Methylnaphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
1-Methylnaphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dichlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dichlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dimethylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dimethylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dinitrophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dinitrophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dinitrotoluene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,4-Dinitrotoluene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,6-Dinitrotoluene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2,6-Dinitrotoluene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Chloronaphthalene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Chloronaphthalene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Chlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Chlorophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Methylnaphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Methylnaphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Nitrophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
2-Nitrophenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3 & 4 Methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3 & 4 Methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
3-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-54661/1-A

Matrix: Water

Analysis Batch: 55050

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54661

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Chloroaniline	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Chloroaniline	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Nitroaniline	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Nitrophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
4-Nitrophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Acenaphthylene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Acenaphthylene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Acenaphthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Acenaphthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[a]anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[a]anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[a]pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[a]pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[b]fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[b]fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[k]fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Benzo[k]fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Butyl benzyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Butyl benzyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Carbazole	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Carbazole	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Chrysene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Chrysene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Cresols	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Cresols	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dibenzofuran	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dibenzofuran	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Diethyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Diethyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dimethyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Dimethyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-54661/1-A

Matrix: Water

Analysis Batch: 55050

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54661

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Di-n-butyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Di-n-octyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Di-n-octyl phthalate	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Fluoranthene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Fluorene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Fluorene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorobutadiene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorobutadiene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachloroethane	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Hexachloroethane	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Isophorone	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Isophorone	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Naphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Naphthalene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Nitrobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Nitrobenzene	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Pentachlorophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Pentachlorophenol	ND		25.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Phenanthrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Phenanthrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Phenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Phenol	ND		10.0	ug/L		01/30/13 09:25	01/31/13 14:57	1
Pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1
Pyrene	ND		2.00	ug/L		01/30/13 09:25	01/31/13 14:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,7-8trifluorophenol (Surr)	70		15 - 125	51/35/13 56:2B	51/31/13 14:50	1
2,4,7-8trifluorophenol (Surr)	70		15 - 125	51/35/13 56:2B	51/31/13 14:50	1
2-Fluorobiphenyl (Surr)	7B		26 - 125	51/35/13 56:2B	51/31/13 14:50	1
2-Fluorobiphenyl (Surr)	7B		26 - 125	51/35/13 56:2B	51/31/13 14:50	1
2-Fluorophenol (Surr)	37		15 - 125	51/35/13 56:2B	51/31/13 14:50	1
2-Fluorophenol (Surr)	37		15 - 125	51/35/13 56:2B	51/31/13 14:50	1
Nitrobenzene-dB (Surr)	74		20 - 125	51/35/13 56:2B	51/31/13 14:50	1
Nitrobenzene-dB (Surr)	74		20 - 125	51/35/13 56:2B	51/31/13 14:50	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-54661/1-A

Matrix: Water

Analysis Batch: 55050

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54661

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-dB (Surr)	25		15 - 125	51/35/13 56:2B	51/31/13 14:B0	1
Phenol-dB (Surr)	25		15 - 125	51/35/13 56:2B	51/31/13 14:B0	1
8erphenyl-d14 (Surr)	TB		13 - 125	51/35/13 56:2B	51/31/13 14:B0	1
8erphenyl-d14 (Surr)	TB		13 - 125	51/35/13 56:2B	51/31/13 14:B0	1

Lab Sample ID: LCS 490-54661/2-A

Matrix: Water

Analysis Batch: 55052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	34.98		ug/L		70	30 - 120
1,2-Dichlorobenzene	50.0	34.11		ug/L		68	32 - 120
1,3-Dichlorobenzene	50.0	33.42		ug/L		67	32 - 120
1,4-Dichlorobenzene	50.0	33.18		ug/L		66	31 - 120
1-Methylnaphthalene	50.0	39.22		ug/L		78	36 - 120
2,4,5-Trichlorophenol	50.0	46.27		ug/L		93	40 - 129
2,4,6-Trichlorophenol	50.0	45.54		ug/L		91	39 - 135
2,4-Dichlorophenol	50.0	46.90		ug/L		94	38 - 120
2,4-Dimethylphenol	50.0	45.20		ug/L		90	21 - 126
2,4-Dinitrophenol	50.0	ND	X	ug/L		11	20 - 150
2,4-Dinitrotoluene	50.0	40.79		ug/L		82	46 - 132
2,6-Dinitrotoluene	50.0	43.05		ug/L		86	54 - 128
2-Chloronaphthalene	50.0	40.69		ug/L		81	39 - 120
2-Chlorophenol	50.0	41.45		ug/L		83	40 - 120
2-Methylnaphthalene	50.0	39.09		ug/L		78	31 - 120
2-Methylphenol	50.0	37.90		ug/L		76	38 - 120
2-Nitroaniline	50.0	46.01		ug/L		92	46 - 131
2-Nitrophenol	50.0	37.22		ug/L		74	32 - 120
3,3'-Dichlorobenzidine	50.0	41.71		ug/L		83	46 - 129
3 & 4 Methylphenol	50.0	33.84		ug/L		68	33 - 120
3-Nitroaniline	50.0	48.75		ug/L		97	54 - 121
4,6-Dinitro-2-methylphenol	50.0	ND	X	ug/L		11	19 - 150
4-Bromophenyl phenyl ether	50.0	45.80		ug/L		92	47 - 127
4-Chloro-3-methylphenol	50.0	45.04		ug/L		90	44 - 120
4-Chlorophenyl phenyl ether	50.0	43.86		ug/L		88	50 - 120
4-Chloroaniline	50.0	45.84		ug/L		92	44 - 120
4-Nitroaniline	50.0	51.76		ug/L		104	55 - 123
4-Nitrophenol	50.0	ND		ug/L		37	10 - 120
Acenaphthylene	50.0	41.68		ug/L		83	48 - 120
Acenaphthene	50.0	38.53		ug/L		77	46 - 120
Benzo[a]anthracene	50.0	41.79		ug/L		84	57 - 120
Benzo[a]pyrene	50.0	41.40		ug/L		83	57 - 124
Benzo[b]fluoranthene	50.0	44.35		ug/L		89	51 - 125
Benzo[g,h,i]perylene	50.0	39.04		ug/L		78	51 - 123
Benzo[k]fluoranthene	50.0	40.93		ug/L		82	51 - 120
Anthracene	50.0	41.76		ug/L		84	58 - 130
Bis(2-chloroethoxy)methane	50.0	44.23		ug/L		88	44 - 120
Bis(2-chloroethyl)ether	50.0	41.17		ug/L		82	47 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-54661/2-A

Matrix: Water

Analysis Batch: 55052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Bis(2-ethylhexyl) phthalate	50.0	44.88		ug/L		90	47 - 138	
bis (2-chloroisopropyl) ether	50.0	43.39		ug/L		87	44 - 120	
Butyl benzyl phthalate	50.0	46.27		ug/L		93	51 - 146	
Carbazole	50.0	45.86		ug/L		92	54 - 123	
Chrysene	50.0	40.45		ug/L		81	55 - 120	
Cresols	100	71.74		ug/L		72	33 - 120	
Dibenz(a,h)anthracene	50.0	39.83		ug/L		80	50 - 125	
Dibenzofuran	50.0	44.25		ug/L		89	50 - 120	
Diethyl phthalate	50.0	43.10		ug/L		86	54 - 128	
Dimethyl phthalate	50.0	42.15		ug/L		84	53 - 127	
Di-n-butyl phthalate	50.0	42.83		ug/L		86	54 - 140	
Di-n-octyl phthalate	50.0	47.23		ug/L		94	50 - 142	
Fluoranthene	50.0	41.27		ug/L		83	56 - 120	
Fluorene	50.0	40.98		ug/L		82	52 - 120	
Hexachlorobenzene	50.0	46.19		ug/L		92	48 - 131	
Hexachlorobutadiene	50.0	35.92		ug/L		72	28 - 120	
Hexachlorocyclopentadiene	50.0	ND		ug/L		18	17 - 120	
Hexachloroethane	50.0	27.95		ug/L		56	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	39.69		ug/L		79	54 - 125	
Isophorone	50.0	40.02		ug/L		80	47 - 120	
Naphthalene	50.0	36.87		ug/L		74	37 - 120	
Nitrobenzene	50.0	40.85		ug/L		82	36 - 120	
N-Nitrosodi-n-propylamine	50.0	42.47		ug/L		85	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	53.46		ug/L		107	58 - 149	
Pentachlorophenol	50.0	50.27		ug/L		101	21 - 150	
Phenanthrene	50.0	42.83		ug/L		86	56 - 120	
Phenol	50.0	17.25		ug/L		35	14 - 120	
Pyrene	50.0	44.09		ug/L		88	53 - 129	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,7-Brizrof ophenol (Surr)	T0		15 - 125
2-Fluoroziphenyl (Surr)	7B		26 - 125
2-Fluorophenol (Surr)	3T		15 - 125
Nitrozen9ene-dB (Surr)	74		20 - 125
Phenol-dB (Surr)	23		15 - 125
8erphenyl-d14 (Surr)	T4		13 - 125

Lab Sample ID: LCSD 490-54661/3-A

Matrix: Water

Analysis Batch: 55052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,2,4-Trichlorobenzene	50.0	12.58	X	ug/L		25	30 - 120	94	35	
1,2-Dichlorobenzene	50.0	12.20	X	ug/L		24	32 - 120	95	42	
1,3-Dichlorobenzene	50.0	11.67	X	ug/L		23	32 - 120	96	42	
1,4-Dichlorobenzene	50.0	11.82	X	ug/L		24	31 - 120	95	44	
1-Methylnaphthalene	50.0	14.18	X	ug/L		28	36 - 120	94	36	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-54661/3-A

Matrix: Water

Analysis Batch: 55052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
2,4,5-Trichlorophenol	50.0	ND	X	ug/L		34	40 - 129	93	34
2,4,6-Trichlorophenol	50.0	16.48	X	ug/L		33	39 - 135	94	40
2,4-Dichlorophenol	50.0	16.30	X	ug/L		33	38 - 120	97	30
2,4-Dimethylphenol	50.0	17.45	X	ug/L		35	21 - 126	89	48
2,4-Dinitrophenol	50.0	ND	X	ug/L		2	20 - 150	127	31
2,4-Dinitrotoluene	50.0	12.87	X	ug/L		26	46 - 132	104	26
2,6-Dinitrotoluene	50.0	14.16	X	ug/L		28	54 - 128	101	29
2-Chloronaphthalene	50.0	14.93	X	ug/L		30	39 - 120	93	36
2-Chlorophenol	50.0	14.76	X	ug/L		30	40 - 120	95	46
2-Methylnaphthalene	50.0	14.06	X	ug/L		28	31 - 120	94	35
2-Methylphenol	50.0	13.47	X	ug/L		27	38 - 120	95	32
2-Nitroaniline	50.0	ND	X	ug/L		34	46 - 131	91	24
2-Nitrophenol	50.0	11.04	X	ug/L		22	32 - 120	109	31
3,3'-Dichlorobenzidine	50.0	15.50	X	ug/L		31	46 - 129	92	30
3 & 4 Methylphenol	50.0	11.92	X	ug/L		24	33 - 120	96	34
3-Nitroaniline	50.0	ND	X	ug/L		35	54 - 121	94	26
4,6-Dinitro-2-methylphenol	50.0	ND	X	ug/L		0	19 - 150	200	34
4-Bromophenyl phenyl ether	50.0	15.70	X	ug/L		31	47 - 127	98	29
4-Chloro-3-methylphenol	50.0	15.92	X	ug/L		32	44 - 120	96	22
4-Chlorophenyl phenyl ether	50.0	15.79	X	ug/L		32	50 - 120	94	29
4-Chloroaniline	50.0	16.41	X	ug/L		33	44 - 120	95	26
4-Nitroaniline	50.0	ND	X	ug/L		37	55 - 123	96	26
4-Nitrophenol	50.0	ND	X	ug/L		11	10 - 120	107	38
Acenaphthylene	50.0	15.15	X	ug/L		30	48 - 120	93	31
Acenaphthene	50.0	14.06	X	ug/L		28	46 - 120	93	31
Benzo[a]anthracene	50.0	15.78	X	ug/L		32	57 - 120	90	27
Benzo[a]pyrene	50.0	15.27	X	ug/L		31	57 - 124	92	27
Benzo[b]fluoranthene	50.0	15.76	X	ug/L		32	51 - 125	95	39
Benzo[g,h,i]perylene	50.0	14.07	X	ug/L		28	51 - 123	94	27
Benzo[k]fluoranthene	50.0	15.51	X	ug/L		31	51 - 120	90	32
Anthracene	50.0	15.50	X	ug/L		31	58 - 130	92	28
Bis(2-chloroethoxy)methane	50.0	15.57	X	ug/L		31	44 - 120	96	31
Bis(2-chloroethyl)ether	50.0	13.83	X	ug/L		28	47 - 120	99	38
Bis(2-ethylhexyl) phthalate	50.0	16.01	X	ug/L		32	47 - 138	95	28
bis (2-chloroisopropyl) ether	50.0	14.43	X	ug/L		29	44 - 120	100	36
Butyl benzyl phthalate	50.0	16.67	X	ug/L		33	51 - 146	94	31
Carbazole	50.0	17.28	X	ug/L		35	54 - 123	91	29
Chrysene	50.0	15.48	X	ug/L		31	55 - 120	89	27
Cresols	100	25.39	X	ug/L		25	33 - 120	95	34
Dibenz(a,h)anthracene	50.0	14.20	X	ug/L		28	50 - 125	95	28
Dibenzofuran	50.0	15.88	X	ug/L		32	50 - 120	94	29
Diethyl phthalate	50.0	15.48	X	ug/L		31	54 - 128	94	28
Dimethyl phthalate	50.0	15.21	X	ug/L		30	53 - 127	94	27
Di-n-butyl phthalate	50.0	15.79	X	ug/L		32	54 - 140	92	27
Di-n-octyl phthalate	50.0	16.69	X	ug/L		33	50 - 142	96	28
Fluoranthene	50.0	16.07	X	ug/L		32	56 - 120	88	28
Fluorene	50.0	14.82	X	ug/L		30	52 - 120	94	28
Hexachlorobenzene	50.0	16.32	X	ug/L		33	48 - 131	96	28

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-54661/3-A

Matrix: Water

Analysis Batch: 55052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Hexachlorobutadiene	50.0	13.44	X	ug/L		27	28 - 120	91	43
Hexachlorocyclopentadiene	50.0	ND	X	ug/L		8	17 - 120	83	43
Hexachloroethane	50.0	ND	X	ug/L		19	30 - 120	98	45
Indeno[1,2,3-cd]pyrene	50.0	11.54	X	ug/L		23	54 - 125	110	27
Isophorone	50.0	14.09	X	ug/L		28	47 - 120	96	31
Naphthalene	50.0	13.69	X	ug/L		27	37 - 120	92	37
Nitrobenzene	50.0	13.75	X	ug/L		27	36 - 120	99	28
N-Nitrosodi-n-propylamine	50.0	14.43	X	ug/L		29	51 - 120	99	37
n-Nitrosodiphenylamine(as diphenylamine)	50.0	19.40	X	ug/L		39	58 - 149	93	26
Pentachlorophenol	50.0	ND	X	ug/L		36	21 - 150	94	31
Phenanthrene	50.0	15.83	X	ug/L		32	56 - 120	92	26
Phenol	50.0	ND	X	ug/L		11	14 - 120	101	42
Pyrene	50.0	16.61	X	ug/L		33	53 - 129	91	29

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,7-8trifluorophenol (Surr)	33		15 - 125
2-Fluorobiphenyl (Surr)	28	X	26 - 125
2-Fluorophenol (Surr)	13		15 - 125
Nitrobenzene-dB (Surr)	22	X	20 - 125
Phenol-dB (Surr)	7	X	15 - 125
8erphenyl-d14 (Surr)	35		13 - 125

Lab Sample ID: MB 490-56264/1-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56264

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
1,2-Dichlorobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
1,3-Dichlorobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
1,4-Dichlorobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
1-Methylnaphthalene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4-Dichlorophenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4-Dimethylphenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4-Dinitrophenol	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,4-Dinitrotoluene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2,6-Dinitrotoluene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Chloronaphthalene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Chlorophenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Methylnaphthalene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Methylphenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Nitroaniline	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
2-Nitrophenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
3 & 4 Methylphenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-56264/1-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56264

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
3-Nitroaniline	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Chloroaniline	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Nitroaniline	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
4-Nitrophenol	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Acenaphthylene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Acenaphthene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Benzo[a]anthracene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Benzo[a]pyrene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Benzo[b]fluoranthene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Benzo[k]fluoranthene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Anthracene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Butyl benzyl phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Carbazole	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Chrysene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Cresols	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Dibenzofuran	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Diethyl phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Dimethyl phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Di-n-butyl phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Di-n-octyl phthalate	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Fluoranthene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Fluorene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Hexachlorobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Hexachlorobutadiene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Hexachloroethane	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Isophorone	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Naphthalene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Nitrobenzene	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Pentachlorophenol	ND		25.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Phenanthrene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1
Phenol	ND		10.0	ug/L		02/05/13 12:45	02/05/13 17:40	1
Pyrene	ND		2.00	ug/L		02/05/13 12:45	02/05/13 17:40	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-56264/2-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	31.60		ug/L		63	30 - 120
1,2-Dichlorobenzene	50.0	29.88		ug/L		60	32 - 120
1,3-Dichlorobenzene	50.0	29.46		ug/L		59	32 - 120
1,4-Dichlorobenzene	50.0	29.85		ug/L		60	31 - 120
1-Methylnaphthalene	50.0	35.19		ug/L		70	36 - 120
2,4,5-Trichlorophenol	50.0	52.85		ug/L		106	40 - 129
2,4,6-Trichlorophenol	50.0	52.10		ug/L		104	39 - 135
2,4-Dichlorophenol	50.0	40.91		ug/L		82	38 - 120
2,4-Dimethylphenol	50.0	44.12		ug/L		88	21 - 126
2,4-Dinitrophenol	50.0	79.50	X	ug/L		159	20 - 150
2,4-Dinitrotoluene	50.0	56.45		ug/L		113	46 - 132
2,6-Dinitrotoluene	50.0	58.55		ug/L		117	54 - 128
2-Chloronaphthalene	50.0	45.19		ug/L		90	39 - 120
2-Chlorophenol	50.0	41.13		ug/L		82	40 - 120
2-Methylnaphthalene	50.0	36.53		ug/L		73	31 - 120
2-Methylphenol	50.0	38.62		ug/L		77	38 - 120
2-Nitroaniline	50.0	50.39		ug/L		101	46 - 131
2-Nitrophenol	50.0	47.89		ug/L		96	32 - 120
3,3'-Dichlorobenzidine	50.0	46.64		ug/L		93	46 - 129
3 & 4 Methylphenol	50.0	32.63		ug/L		65	33 - 120
3-Nitroaniline	50.0	58.50		ug/L		117	54 - 121
4,6-Dinitro-2-methylphenol	50.0	73.33		ug/L		147	19 - 150
4-Bromophenyl phenyl ether	50.0	43.54		ug/L		87	47 - 127
4-Chloro-3-methylphenol	50.0	40.22		ug/L		80	44 - 120
4-Chlorophenyl phenyl ether	50.0	45.67		ug/L		91	50 - 120
4-Chloroaniline	50.0	42.29		ug/L		85	44 - 120
4-Nitroaniline	50.0	53.42		ug/L		107	55 - 123
4-Nitrophenol	50.0	ND		ug/L		38	10 - 120
Acenaphthylene	50.0	44.20		ug/L		88	48 - 120
Acenaphthene	50.0	42.74		ug/L		85	46 - 120
Benzo[a]anthracene	50.0	41.94		ug/L		84	57 - 120
Benzo[a]pyrene	50.0	41.03		ug/L		82	57 - 124
Benzo[b]fluoranthene	50.0	39.74		ug/L		79	51 - 125
Benzo[g,h,i]perylene	50.0	41.67		ug/L		83	51 - 123
Benzo[k]fluoranthene	50.0	42.27		ug/L		85	51 - 120
Anthracene	50.0	39.11		ug/L		78	58 - 130
Bis(2-chloroethoxy)methane	50.0	37.68		ug/L		75	44 - 120
Bis(2-chloroethyl)ether	50.0	41.12		ug/L		82	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	45.92		ug/L		92	47 - 138
bis (2-chloroisopropyl) ether	50.0	43.25		ug/L		86	44 - 120
Butyl benzyl phthalate	50.0	45.61		ug/L		91	51 - 146
Carbazole	50.0	44.15		ug/L		88	54 - 123
Chrysene	50.0	42.26		ug/L		85	55 - 120
Cresols	100	71.25		ug/L		71	33 - 120
Dibenz(a,h)anthracene	50.0	41.94		ug/L		84	50 - 125
Dibenzofuran	50.0	49.72		ug/L		99	50 - 120
Diethyl phthalate	50.0	46.51		ug/L		93	54 - 128
Dimethyl phthalate	50.0	48.57		ug/L		97	53 - 127

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-56264/2-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Di-n-butyl phthalate	50.0	42.83		ug/L		86	54 - 140	
Di-n-octyl phthalate	50.0	43.89		ug/L		88	50 - 142	
Fluoranthene	50.0	40.24		ug/L		80	56 - 120	
Fluorene	50.0	42.78		ug/L		86	52 - 120	
Hexachlorobenzene	50.0	46.69		ug/L		93	48 - 131	
Hexachlorobutadiene	50.0	34.16		ug/L		68	28 - 120	
Hexachlorocyclopentadiene	50.0	38.24		ug/L		76	17 - 120	
Hexachloroethane	50.0	26.44		ug/L		53	30 - 120	
Indeno[1,2,3-cd]pyrene	50.0	41.75		ug/L		84	54 - 125	
Isophorone	50.0	37.94		ug/L		76	47 - 120	
Naphthalene	50.0	32.66		ug/L		65	37 - 120	
Nitrobenzene	50.0	40.31		ug/L		81	36 - 120	
N-Nitrosodi-n-propylamine	50.0	41.53		ug/L		83	51 - 120	
n-Nitrosodiphenylamine(as diphenylamine)	50.0	54.54		ug/L		109	58 - 149	
Pentachlorophenol	50.0	62.19		ug/L		124	21 - 150	
Phenanthrene	50.0	43.57		ug/L		87	56 - 120	
Phenol	50.0	17.01		ug/L		34	14 - 120	
Pyrene	50.0	42.03		ug/L		84	53 - 129	

Lab Sample ID: LCSD 490-56264/3-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,2,4-Trichlorobenzene	50.0	29.56		ug/L		59	30 - 120	7	35	
1,2-Dichlorobenzene	50.0	29.99		ug/L		60	32 - 120	0	42	
1,3-Dichlorobenzene	50.0	28.48		ug/L		57	32 - 120	3	42	
1,4-Dichlorobenzene	50.0	29.30		ug/L		59	31 - 120	2	44	
1-Methylnaphthalene	50.0	33.84		ug/L		68	36 - 120	4	36	
2,4,5-Trichlorophenol	50.0	47.37		ug/L		95	40 - 129	11	34	
2,4,6-Trichlorophenol	50.0	48.76		ug/L		98	39 - 135	7	40	
2,4-Dichlorophenol	50.0	38.68		ug/L		77	38 - 120	6	30	
2,4-Dimethylphenol	50.0	39.76		ug/L		80	21 - 126	10	48	
2,4-Dinitrophenol	50.0	76.65	X	ug/L		153	20 - 150	4	31	
2,4-Dinitrotoluene	50.0	53.93		ug/L		108	46 - 132	5	26	
2,6-Dinitrotoluene	50.0	58.80		ug/L		118	54 - 128	0	29	
2-Chloronaphthalene	50.0	39.57		ug/L		79	39 - 120	13	36	
2-Chlorophenol	50.0	38.19		ug/L		76	40 - 120	7	46	
2-Methylnaphthalene	50.0	32.77		ug/L		66	31 - 120	11	35	
2-Methylphenol	50.0	35.54		ug/L		71	38 - 120	8	32	
2-Nitroaniline	50.0	49.48		ug/L		99	46 - 131	2	24	
2-Nitrophenol	50.0	44.27		ug/L		89	32 - 120	8	31	
3,3'-Dichlorobenzidine	50.0	46.97		ug/L		94	46 - 129	1	30	
3 & 4 Methylphenol	50.0	29.59		ug/L		59	33 - 120	10	34	
3-Nitroaniline	50.0	53.81		ug/L		108	54 - 121	8	26	
4,6-Dinitro-2-methylphenol	50.0	79.15	X	ug/L		158	19 - 150	8	34	
4-Bromophenyl phenyl ether	50.0	47.90		ug/L		96	47 - 127	10	29	
4-Chloro-3-methylphenol	50.0	41.05		ug/L		82	44 - 120	2	22	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-56264/3-A

Matrix: Water

Analysis Batch: 56131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits	RPD	Limit
4-Chlorophenyl phenyl ether	50.0	46.54		ug/L		93	50 - 120	2	29
4-Chloroaniline	50.0	39.40		ug/L		79	44 - 120	7	26
4-Nitroaniline	50.0	53.44		ug/L		107	55 - 123	0	26
4-Nitrophenol	50.0	ND		ug/L		36	10 - 120	7	38
Acenaphthylene	50.0	40.65		ug/L		81	48 - 120	8	31
Acenaphthene	50.0	38.59		ug/L		77	46 - 120	10	31
Benzo[a]anthracene	50.0	42.57		ug/L		85	57 - 120	1	27
Benzo[a]pyrene	50.0	41.25		ug/L		82	57 - 124	1	27
Benzo[b]fluoranthene	50.0	39.07		ug/L		78	51 - 125	2	39
Benzo[g,h,i]perylene	50.0	40.48		ug/L		81	51 - 123	3	27
Benzo[k]fluoranthene	50.0	45.73		ug/L		91	51 - 120	8	32
Anthracene	50.0	41.11		ug/L		82	58 - 130	5	28
Bis(2-chloroethoxy)methane	50.0	37.48		ug/L		75	44 - 120	1	31
Bis(2-chloroethyl)ether	50.0	37.56		ug/L		75	47 - 120	9	38
Bis(2-ethylhexyl) phthalate	50.0	46.73		ug/L		93	47 - 138	2	28
bis (2-chloroisopropyl) ether	50.0	40.03		ug/L		80	44 - 120	8	36
Butyl benzyl phthalate	50.0	45.81		ug/L		92	51 - 146	0	31
Carbazole	50.0	45.18		ug/L		90	54 - 123	2	29
Chrysene	50.0	42.33		ug/L		85	55 - 120	0	27
Cresols	100	65.13		ug/L		65	33 - 120	9	34
Dibenz(a,h)anthracene	50.0	38.99		ug/L		78	50 - 125	7	28
Dibenzofuran	50.0	45.23		ug/L		90	50 - 120	9	29
Diethyl phthalate	50.0	42.77		ug/L		86	54 - 128	8	28
Dimethyl phthalate	50.0	45.78		ug/L		92	53 - 127	6	27
Di-n-butyl phthalate	50.0	41.18		ug/L		82	54 - 140	4	27
Di-n-octyl phthalate	50.0	45.07		ug/L		90	50 - 142	3	28
Fluoranthene	50.0	40.35		ug/L		81	56 - 120	0	28
Fluorene	50.0	42.47		ug/L		85	52 - 120	1	28
Hexachlorobenzene	50.0	47.96		ug/L		96	48 - 131	3	28
Hexachlorobutadiene	50.0	31.20		ug/L		62	28 - 120	9	43
Hexachlorocyclopentadiene	50.0	34.33		ug/L		69	17 - 120	11	43
Hexachloroethane	50.0	26.33		ug/L		53	30 - 120	0	45
Indeno[1,2,3-cd]pyrene	50.0	37.96		ug/L		76	54 - 125	10	27
Isophorone	50.0	34.35		ug/L		69	47 - 120	10	31
Naphthalene	50.0	30.87		ug/L		62	37 - 120	6	37
Nitrobenzene	50.0	36.66		ug/L		73	36 - 120	9	28
N-Nitrosodi-n-propylamine	50.0	38.64		ug/L		77	51 - 120	7	37
n-Nitrosodiphenylamine(as diphenylamine)	50.0	53.16		ug/L		106	58 - 149	3	26
Pentachlorophenol	50.0	63.29		ug/L		127	21 - 150	2	31
Phenanthrene	50.0	44.19		ug/L		88	56 - 120	1	26
Phenol	50.0	14.71		ug/L		29	14 - 120	15	42
Pyrene	50.0	42.34		ug/L		85	53 - 129	1	29

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-54309/9

Matrix: Water

Analysis Batch: 54309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			01/29/13 12:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-8riðuorotoluene	154		B5 - 1B5				51/26/13 12:35	1

Lab Sample ID: LCS 490-54309/5

Matrix: Water

Analysis Batch: 54309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	952.8		ug/L		95	66 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-8riðuorotoluene	110		B5 - 1B5				

Lab Sample ID: LCSD 490-54309/33

Matrix: Water

Analysis Batch: 54309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	854.4		ug/L		85	66 - 140	11	42
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-8riðuorotoluene	112		B5 - 1B5						

Lab Sample ID: 490-17986-D-5 MS

Matrix: Water

Analysis Batch: 54309

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	ND		1000	869.7		ug/L		87	33 - 175
Surrogate	MS %Recovery	MS Qualifier	Limits						
a,a,a-8riðuorotoluene	143		B5 - 1B5						

Lab Sample ID: 490-17986-D-5 MSD

Matrix: Water

Analysis Batch: 54309

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	ND		1000	798.1		ug/L		80	33 - 175	9	42
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
a,a,a-8riðuorotoluene	134		B5 - 1B5								

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-54192/1-A

Matrix: Water

Analysis Batch: 54138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54192

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		01/28/13 12:19	01/29/13 10:39	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -8erphenyl (Surr)	65		B5 - 1B5			51/27/13 12:16	51/26/13 15:36	1

Lab Sample ID: LCS 490-54192/2-A

Matrix: Water

Analysis Batch: 54138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	837.0		ug/L		84	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -8erphenyl (Surr)	TT		B5 - 1B5				

Lab Sample ID: LCSD 490-54192/3-A

Matrix: Water

Analysis Batch: 54138

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1000	741.7		ug/L		74	46 - 132	12	31
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
<i>o</i> -8erphenyl (Surr)	T3		B5 - 1B5						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-55865/3

Matrix: Water

Analysis Batch: 55865

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/02/13 07:33	1

Lab Sample ID: LCS 490-55865/4

Matrix: Water

Analysis Batch: 55865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.36		mg/L		99	90 - 110

Lab Sample ID: LCSD 490-55865/5

Matrix: Water

Analysis Batch: 55865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	49.28		mg/L		99	90 - 110	0	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-18048-A-3 MS

Matrix: Water

Analysis Batch: 55865

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.30		50.0	47.37		mg/L		92	80 - 120

Lab Sample ID: 490-17797-H-1 DU

Matrix: Water

Analysis Batch: 55865

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	16.8		16.80		mg/L		0.2	20

Lab Sample ID: MB 490-55987/3

Matrix: Water

Analysis Batch: 55987

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/04/13 13:37	1

Lab Sample ID: LCS 490-55987/4

Matrix: Water

Analysis Batch: 55987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.43		mg/L		99	90 - 110

Lab Sample ID: LCSD 490-55987/5

Matrix: Water

Analysis Batch: 55987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	49.38		mg/L		99	90 - 110	0	20

Lab Sample ID: MB 490-56194/3

Matrix: Water

Analysis Batch: 56194

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/05/13 13:50	1

Lab Sample ID: LCS 490-56194/4

Matrix: Water

Analysis Batch: 56194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.62		mg/L		99	90 - 110

Lab Sample ID: LCSD 490-56194/5

Matrix: Water

Analysis Batch: 56194

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	49.81		mg/L		100	90 - 110	0	20

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Lab Sample ID: 490-18636-L-1 MS
Matrix: Water
Analysis Batch: 56194

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	22.1		50.0	71.19		mg/L		98	80 - 120

Lab Sample ID: 490-18636-L-1 DU
Matrix: Water
Analysis Batch: 56194

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	22.1		22.02		mg/L		0.3	20

Lab Sample ID: MB 490-56314/3
Matrix: Water
Analysis Batch: 56314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/05/13 15:30	1

Lab Sample ID: LCS 490-56314/4
Matrix: Water
Analysis Batch: 56314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.69		mg/L		97	90 - 110

Lab Sample ID: LCSD 490-56314/5
Matrix: Water
Analysis Batch: 56314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.62		mg/L		97	90 - 110	0	20

Lab Sample ID: 490-17903-H-1 MS
Matrix: Water
Analysis Batch: 56314

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.2		50.0	64.83		mg/L		99	80 - 120

Lab Sample ID: 490-18429-I-1 DU
Matrix: Water
Analysis Batch: 56314

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	18.8		17.93		mg/L		5	20

Lab Sample ID: MB 490-56538/3
Matrix: Water
Analysis Batch: 56538

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/06/13 10:28	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-56538/4
Matrix: Water
Analysis Batch: 56538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.19		mg/L		98	90 - 110

Lab Sample ID: LCSD 490-56538/5
Matrix: Water
Analysis Batch: 56538

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	49.87		mg/L		100	90 - 110	1	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-53880/1-A
Matrix: Water
Analysis Batch: 55341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 14:34	1
Chromium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 14:34	1
Cobalt	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 14:34	1
Copper	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 14:34	1
Iron	ND		0.100	mg/L		01/26/13 08:04	01/31/13 14:34	1
Lead	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 14:34	1
Manganese	ND		0.0150	mg/L		01/26/13 08:04	01/31/13 14:34	1
Nickel	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 14:34	1
Selenium	ND		0.0100	mg/L		01/26/13 08:04	01/31/13 14:34	1
Thallium	ND		0.00500	mg/L		01/26/13 08:04	01/31/13 14:34	1
Vanadium	ND		0.0200	mg/L		01/26/13 08:04	01/31/13 14:34	1

Lab Sample ID: LCS 490-53880/2-A
Matrix: Water
Analysis Batch: 55341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05110		mg/L		102	80 - 120
Chromium	0.200	0.1977		mg/L		99	80 - 120
Cobalt	0.500	0.4904		mg/L		98	80 - 120
Copper	0.250	0.2628		mg/L		105	80 - 120
Iron	1.00	0.9822		mg/L		98	80 - 120
Lead	0.0500	0.05360		mg/L		107	80 - 120
Manganese	0.500	0.5124		mg/L		102	80 - 120
Nickel	0.500	0.5189		mg/L		104	80 - 120
Selenium	0.0500	0.04710		mg/L		94	80 - 120
Thallium	0.0500	0.05330		mg/L		107	80 - 120
Vanadium	0.500	0.5000		mg/L		100	80 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-53880/3-A

Matrix: Water

Analysis Batch: 55341

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0500	0.05040		mg/L		101	80 - 120	1	20
Chromium	0.200	0.1913		mg/L		96	80 - 120	3	20
Cobalt	0.500	0.4869		mg/L		97	80 - 120	1	20
Copper	0.250	0.2588		mg/L		104	80 - 120	2	20
Iron	1.00	0.9824		mg/L		98	80 - 120	0	20
Lead	0.0500	0.05490		mg/L		110	80 - 120	2	20
Manganese	0.500	0.4905		mg/L		98	80 - 120	4	20
Nickel	0.500	0.5147		mg/L		103	80 - 120	1	20
Selenium	0.0500	0.05210		mg/L		104	80 - 120	10	20
Thallium	0.0500	0.05420		mg/L		108	80 - 120	2	20
Vanadium	0.500	0.5042		mg/L		101	80 - 120	1	20

Lab Sample ID: 490-17905-G-1-B MS

Matrix: Water

Analysis Batch: 55341

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.0500	0.05330		mg/L		107	75 - 125
Chromium	ND		0.200	0.2096		mg/L		105	75 - 125
Cobalt	ND		0.500	0.5281		mg/L		106	75 - 125
Copper	0.0121		0.250	0.2805		mg/L		107	75 - 125
Iron	ND		1.00	1.099		mg/L		105	75 - 125
Lead	ND		0.0500	0.06020		mg/L		112	75 - 125
Manganese	ND		0.500	0.5437		mg/L		109	75 - 125
Nickel	ND		0.500	0.5525		mg/L		111	75 - 125
Selenium	ND		0.0500	0.05460		mg/L		109	75 - 125
Thallium	ND		0.0500	0.05280		mg/L		106	75 - 125
Vanadium	ND		0.500	0.5374		mg/L		107	75 - 125

Lab Sample ID: 490-17905-G-1-C MSD

Matrix: Water

Analysis Batch: 55341

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.0500	0.05190		mg/L		104	75 - 125	3	20
Chromium	ND		0.200	0.2118		mg/L		106	75 - 125	1	20
Cobalt	ND		0.500	0.5241		mg/L		105	75 - 125	1	20
Copper	0.0121		0.250	0.2849		mg/L		109	75 - 125	2	20
Iron	ND		1.00	1.102		mg/L		105	75 - 125	0	20
Lead	ND		0.0500	0.05970		mg/L		111	75 - 125	1	20
Manganese	ND		0.500	0.5459		mg/L		109	75 - 125	0	20
Nickel	ND		0.500	0.5511		mg/L		110	75 - 125	0	20
Selenium	ND		0.0500	0.05820		mg/L		116	75 - 125	6	20
Thallium	ND		0.0500	0.05190		mg/L		104	75 - 125	2	20
Vanadium	ND		0.500	0.5399		mg/L		108	75 - 125	0	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

GC/MS VOA

Analysis Batch: 55048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8260B	
490-17957-2	OS-25S	Total/NA	Water	8260B	
490-17957-3	OS-20S	Total/NA	Water	8260B	
490-18016-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-18016-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-55048/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-55048/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-55048/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 55257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-4	OS-15S	Total/NA	Water	8260B	
490-17957-5	OS-10S	Total/NA	Water	8260B	
490-17957-6	OS-5S	Total/NA	Water	8260B	
490-17957-7	OS-10E	Total/NA	Water	8260B	
490-17957-8	OS-5E	Total/NA	Water	8260B	
490-17957-9	Trip Blank-1	Total/NA	Water	8260B	
490-17957-10	Trip Blank-2	Total/NA	Water	8260B	
490-17957-11	Trip Blank-3	Total/NA	Water	8260B	
490-17957-12	Trip Blank-4	Total/NA	Water	8260B	
490-18055-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-18055-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-55257/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-55257/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-55257/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 55425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8260B	
490-17957-2	OS-25S	Total/NA	Water	8260B	
490-17957-3	OS-20S	Total/NA	Water	8260B	
490-17957-6	OS-5S	Total/NA	Water	8260B	
490-18014-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-18014-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-55425/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-55425/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-55425/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 54661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	3510C	
490-17957-2	OS-25S	Total/NA	Water	3510C	
490-17957-3	OS-20S	Total/NA	Water	3510C	
490-17957-4	OS-15S	Total/NA	Water	3510C	
490-17957-5	OS-10S	Total/NA	Water	3510C	
490-17957-6	OS-5S	Total/NA	Water	3510C	
490-17957-7	OS-10E	Total/NA	Water	3510C	
490-17957-8	OS-5E	Total/NA	Water	3510C	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

GC/MS Semi VOA (Continued)

Prep Batch: 54661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-54661/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-54661/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 490-54661/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 55050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-54661/1-A	Method Blank	Total/NA	Water	8270D	54661

Analysis Batch: 55052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8270D	54661
490-17957-2	OS-25S	Total/NA	Water	8270D	54661
490-17957-3	OS-20S	Total/NA	Water	8270D	54661
490-17957-4	OS-15S	Total/NA	Water	8270D	54661
490-17957-5	OS-10S	Total/NA	Water	8270D	54661
490-17957-6	OS-5S	Total/NA	Water	8270D	54661
490-17957-7	OS-10E	Total/NA	Water	8270D	54661
490-17957-8	OS-5E	Total/NA	Water	8270D	54661
LCS 490-54661/2-A	Lab Control Sample	Total/NA	Water	8270D	54661
LCSD 490-54661/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	54661
MB 490-54661/1-A	Method Blank	Total/NA	Water	8270D	54661

Analysis Batch: 55493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8270D	54661
490-17957-2	OS-25S	Total/NA	Water	8270D	54661

Analysis Batch: 56131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8270D	56264
490-17957-2	OS-25S	Total/NA	Water	8270D	56264
490-17957-3	OS-20S	Total/NA	Water	8270D	56264
490-17957-4	OS-15S	Total/NA	Water	8270D	56264
490-17957-5	OS-10S	Total/NA	Water	8270D	56264
LCS 490-56264/2-A	Lab Control Sample	Total/NA	Water	8270D	56264
LCSD 490-56264/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	56264
MB 490-56264/1-A	Method Blank	Total/NA	Water	8270D	56264

Prep Batch: 56264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	3510C	
490-17957-2	OS-25S	Total/NA	Water	3510C	
490-17957-3	OS-20S	Total/NA	Water	3510C	
490-17957-4	OS-15S	Total/NA	Water	3510C	
490-17957-5	OS-10S	Total/NA	Water	3510C	
490-17957-6	OS-5S	Total/NA	Water	3510C	
490-17957-7	OS-10E	Total/NA	Water	3510C	
490-17957-8	OS-5E	Total/NA	Water	3510C	
LCS 490-56264/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-56264/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 490-56264/1-A	Method Blank	Total/NA	Water	3510C	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

GC/MS Semi VOA (Continued)

Analysis Batch: 56504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8270D	56264
490-17957-2	OS-25S	Total/NA	Water	8270D	56264
490-17957-3	OS-20S	Total/NA	Water	8270D	56264
490-17957-6	OS-5S	Total/NA	Water	8270D	56264
490-17957-7	OS-10E	Total/NA	Water	8270D	56264
490-17957-8	OS-5E	Total/NA	Water	8270D	56264

Analysis Batch: 56585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-3	OS-20S	Total/NA	Water	8270D	54661

GC VOA

Analysis Batch: 54309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8015C	
490-17957-2	OS-25S	Total/NA	Water	8015C	
490-17957-3	OS-20S	Total/NA	Water	8015C	
490-17957-4	OS-15S	Total/NA	Water	8015C	
490-17957-5	OS-10S	Total/NA	Water	8015C	
490-17957-6	OS-5S	Total/NA	Water	8015C	
490-17957-7	OS-10E	Total/NA	Water	8015C	
490-17957-8	OS-5E	Total/NA	Water	8015C	
490-17986-D-5 MS	Matrix Spike	Total/NA	Water	8015C	
490-17986-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	
LCS 490-54309/5	Lab Control Sample	Total/NA	Water	8015C	
LCS D 490-54309/33	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-54309/9	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Analysis Batch: 54138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-4	OS-15S	Total/NA	Water	8015C	54192
490-17957-6	OS-5S	Total/NA	Water	8015C	54192
490-17957-7	OS-10E	Total/NA	Water	8015C	54192
490-17957-8	OS-5E	Total/NA	Water	8015C	54192
LCS 490-54192/2-A	Lab Control Sample	Total/NA	Water	8015C	54192
LCS D 490-54192/3-A	Lab Control Sample Dup	Total/NA	Water	8015C	54192
MB 490-54192/1-A	Method Blank	Total/NA	Water	8015C	54192

Prep Batch: 54192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	3510C	
490-17957-2	OS-25S	Total/NA	Water	3510C	
490-17957-3	OS-20S	Total/NA	Water	3510C	
490-17957-4	OS-15S	Total/NA	Water	3510C	
490-17957-5	OS-10S	Total/NA	Water	3510C	
490-17957-6	OS-5S	Total/NA	Water	3510C	
490-17957-7	OS-10E	Total/NA	Water	3510C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

GC Semi VOA (Continued)

Prep Batch: 54192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-8	OS-5E	Total/NA	Water	3510C	
LCS 490-54192/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-54192/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 490-54192/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 54464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	8015C	54192
490-17957-2	OS-25S	Total/NA	Water	8015C	54192
490-17957-3	OS-20S	Total/NA	Water	8015C	54192
490-17957-5	OS-10S	Total/NA	Water	8015C	54192

HPLC/IC

Analysis Batch: 55865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17797-H-1 DU	Duplicate	Total/NA	Water	300.0	
490-18048-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 490-55865/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-55865/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-55865/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 55987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-2	OS-25S	Total/NA	Water	300.0	
490-17957-3	OS-20S	Total/NA	Water	300.0	
490-17957-4	OS-15S	Total/NA	Water	300.0	
490-17957-5	OS-10S	Total/NA	Water	300.0	
LCS 490-55987/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-55987/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-55987/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 56194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-1	MW-13 ISOC	Total/NA	Water	300.0	
490-18636-L-1 DU	Duplicate	Total/NA	Water	300.0	
490-18636-L-1 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 490-56194/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-56194/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-56194/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 56314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17903-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
490-17957-7	OS-10E	Total/NA	Water	300.0	
490-17957-8	OS-5E	Total/NA	Water	300.0	
490-18429-I-1 DU	Duplicate	Total/NA	Water	300.0	
LCS 490-56314/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-56314/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-56314/3	Method Blank	Total/NA	Water	300.0	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

HPLC/IC (Continued)

Analysis Batch: 56538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17957-6	OS-5S	Total/NA	Water	300.0	
LCS 490-56538/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-56538/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-56538/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 53880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17905-G-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-17905-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-17957-1	MW-13 ISOC	Total/NA	Water	3010A	
490-17957-2	OS-25S	Total/NA	Water	3010A	
490-17957-3	OS-20S	Total/NA	Water	3010A	
490-17957-4	OS-15S	Total/NA	Water	3010A	
490-17957-5	OS-10S	Total/NA	Water	3010A	
490-17957-6	OS-5S	Total/NA	Water	3010A	
490-17957-7	OS-10E	Total/NA	Water	3010A	
490-17957-8	OS-5E	Total/NA	Water	3010A	
LCS 490-53880/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-53880/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-53880/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 55341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17905-G-1-B MS	Matrix Spike	Total/NA	Water	6010C	53880
490-17905-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	53880
490-17957-1	MW-13 ISOC	Total/NA	Water	6010C	53880
490-17957-2	OS-25S	Total/NA	Water	6010C	53880
490-17957-3	OS-20S	Total/NA	Water	6010C	53880
490-17957-4	OS-15S	Total/NA	Water	6010C	53880
490-17957-5	OS-10S	Total/NA	Water	6010C	53880
490-17957-6	OS-5S	Total/NA	Water	6010C	53880
490-17957-7	OS-10E	Total/NA	Water	6010C	53880
490-17957-8	OS-5E	Total/NA	Water	6010C	53880
LCS 490-53880/2-A	Lab Control Sample	Total/NA	Water	6010C	53880
LCSD 490-53880/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	53880
MB 490-53880/1-A	Method Blank	Total/NA	Water	6010C	53880

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-17957-1

Date Collected: 01/23/13 08:50

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55048	01/31/13 20:05	EL	TAL NSH
Total/NA	Analysis	8260B		5	55425	02/01/13 15:40	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 17:27	KP	TAL NSH
Total/NA	Analysis	8270D		2	55493	02/01/13 16:58	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56131	02/05/13 19:26	BS	TAL NSH
Total/NA	Analysis	8270D		5	56504	02/06/13 10:53	BS	TAL NSH
Total/NA	Analysis	8015C		5	54309	01/29/13 15:06	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		2	54464	01/29/13 14:26	JL	TAL NSH
Total/NA	Analysis	300.0		200	56194	02/05/13 14:50	JS	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 15:39	KJ	TAL NSH

Client Sample ID: OS-25S

Lab Sample ID: 490-17957-2

Date Collected: 01/23/13 10:25

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55048	01/31/13 20:31	EL	TAL NSH
Total/NA	Analysis	8260B		10	55425	02/01/13 16:06	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 17:48	KP	TAL NSH
Total/NA	Analysis	8270D		5	55493	02/01/13 17:19	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56131	02/05/13 19:53	BS	TAL NSH
Total/NA	Analysis	8270D		5	56504	02/06/13 11:19	BS	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 16:30	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		2	54464	01/29/13 14:42	JL	TAL NSH
Total/NA	Analysis	300.0		50	55987	02/04/13 15:57	JS	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 15:43	KJ	TAL NSH

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55048	01/31/13 20:57	EL	TAL NSH
Total/NA	Analysis	8260B		10	55425	02/01/13 16:32	EL	TAL NSH

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-20S

Lab Sample ID: 490-17957-3

Date Collected: 01/23/13 11:10

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 18:10	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56131	02/05/13 20:18	BS	TAL NSH
Total/NA	Analysis	8270D		5	56504	02/06/13 11:46	BS	TAL NSH
Total/NA	Analysis	8270D		2	56585	02/06/13 19:48	KP	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 16:58	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		2	54464	01/29/13 14:59	JL	TAL NSH
Total/NA	Analysis	300.0		100	55987	02/04/13 16:17	JS	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 15:46	KJ	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-17957-4

Date Collected: 01/23/13 12:05

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 06:30	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 18:31	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56131	02/05/13 20:44	BS	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 17:26	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		1	54138	01/28/13 23:08	JL	TAL NSH
Total/NA	Analysis	300.0		1	55987	02/04/13 16:37	JS	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 15:50	KJ	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 06:56	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 18:53	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56131	02/05/13 21:11	BS	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 17:54	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-10S

Lab Sample ID: 490-17957-5

Date Collected: 01/23/13 13:00

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		2	54464	01/29/13 15:15	JL	TAL NSH
Total/NA	Analysis	300.0		100	55987	02/04/13 16:57	JS	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 16:02	KJ	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-17957-6

Date Collected: 01/23/13 14:05

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 07:22	EL	TAL NSH
Total/NA	Analysis	8260B		5	55425	02/01/13 16:58	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 19:14	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56504	02/06/13 12:13	BS	TAL NSH
Total/NA	Analysis	8015C		5	54309	01/29/13 15:34	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		1	54138	01/28/13 23:40	JL	TAL NSH
Total/NA	Analysis	300.0		500	56538	02/06/13 11:25	KD	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 16:06	KJ	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-17957-7

Date Collected: 01/23/13 15:00

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 07:48	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 19:35	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56504	02/06/13 12:40	BS	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 18:22	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		1	54138	01/28/13 23:55	JL	TAL NSH
Total/NA	Analysis	300.0		100	56314	02/05/13 19:20	KD	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 16:10	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Client Sample ID: OS-5E

Lab Sample ID: 490-17957-8

Date Collected: 01/23/13 16:10

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 08:14	EL	TAL NSH
Total/NA	Prep	3510C			54661	01/30/13 09:25	CH	TAL NSH
Total/NA	Analysis	8270D		1	55052	01/31/13 19:57	KP	TAL NSH
Total/NA	Prep	3510C			56264	02/05/13 12:45	RH	TAL NSH
Total/NA	Analysis	8270D		1	56504	02/06/13 13:07	BS	TAL NSH
Total/NA	Analysis	8015C		1	54309	01/29/13 18:50	BH	TAL NSH
Total/NA	Prep	3510C			54192	01/28/13 12:19	RH	TAL NSH
Total/NA	Analysis	8015C		1	54138	01/29/13 00:11	JL	TAL NSH
Total/NA	Analysis	300.0		100	56314	02/05/13 19:39	KD	TAL NSH
Total/NA	Prep	3010A			53880	01/26/13 08:04	SR	TAL NSH
Total/NA	Analysis	6010C		1	55341	01/31/13 16:13	KJ	TAL NSH

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-17957-9

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 01:44	EL	TAL NSH

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-17957-10

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 02:10	EL	TAL NSH

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-17957-11

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 02:37	EL	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-17957-12

Date Collected: 01/23/13 00:01

Matrix: Water

Date Received: 01/25/13 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	55257	02/01/13 03:03	EL	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Duke Energy-Spartanburg J13010463

TestAmerica Job ID: 490-17957-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

COOLER RECEIPT FORM



490-17957 Chain of Custody

Cooler Received/Opened On: 1/25/2013 @0900

1. Tracking # 4430 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 12080142

2. Temperature of rep. sample or temp blank when opened: 1.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # NA 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used? YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EF

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EF

I certify that I attached a label with the unique LIMS number to each container (initial) EF

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #



COOLER RECEIPT FORM

Cooler Received/Opened On : 01/25/13 @ 0900

Tracking # 4419 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 17610176

1. Temperature of rep. sample or temp blank when opened: 3.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Fed

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..#

COOLER RECEIPT FORM

Cooler Received/Opened On : 01/25/13 @ 0900

Tracking # 4408 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 17610176

1. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES NO..NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO..NA

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES...NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EF

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EF

I certify that I attached a label with the unique LIMS number to each container (initial) EF

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO..#

COOLER RECEIPT FORM

Loc: 490
17957

Cooler Received/Opened On 1/25/2013 @ 0900

1. Tracking # 4420 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA
If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) F

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) F

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) F

I certify that I attached a label with the unique LIMS number to each container (initial) F

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...#

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days*

Organic & Inorganic Analyses: 10, 7, 5, 4, 3, 2, 1, <1

Petroleum Hydrocarbon Analyses: 5, 4, 3, 2, 1, <1

OTHER: Specify: *due 2/14/13*

*Turnaround Request less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUIRED ANALYSES						PRESERVATIVE	RECEIVED BY:	DATE:	FIRM:	TA WO ID
		HCL	HCL	HCL	heavy	heavy	Hg/Cd					
1. MW-13 ISOC	1-23-13 / 850	3	1	3	2	1	1		1-23-13	AMEC		
2. OS-25 S	1-23-13 / 1025	3	1	3	2	1	1	Loc: 490 17957	1-24/13	AMEC		
3. OS-20 S	1-23-13 / 1010	3	1	3	2	1	1		1-24/13	AMEC		
4. OS-15 S	1-23-13 / 1205	3	1	3	2	1	1		1-24/13	AMEC		
5. OS-10 S	1-23-13 / 1300	3	1	3	2	1	1		1-24/13	AMEC		
6. OS-5 S	1-23-13 / 1405	3	1	3	2	1	1		1-24/13	AMEC		
7. OS-10 E	1-23-13 / 1500	3	1	3	2	1	1		1-24/13	AMEC		
8. OS-5 E	1-23-13 / 1610	3	1	3	2	1	1		1-24/13	AMEC		
9. Trip Blank-1	1-23-13 / 700	2							1-24/13	AMEC		
10. Trip Blank-2	1-23-13 / 1030	2							1-24/13	AMEC		

RELEASER BY: *Troy Holzschuh* FIRM: *AMEC* DATE: *1-23-13*

PRINTED BY: *Troy Holzschuh* FIRM: *AMEC* DATE: *1-24/13*

RECEIVED BY: *C. Robinson* DATE: *1-24/13*

PRINT NAME: *C. Robinson* FIRM: *TA* DATE: *1-24/13*

ADDITIONAL REMARKS: *Metals: arsenic, chromium, selenium, thallium, vanadium, copper, nickel, lead, iron, manganese, cobalt*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses
 STD. 10 7 5 4 3 2 1 <1
 Petroleum Hydrocarbon Analyses
 STD. 5 4 3 2 1 <1

* Turnaround Requests less than standard may incur Rush Charges.

OTHER Specify:

CLIENT: AMEC Duke Energy		INVOICE TO:	
REPORT TO: Andy Clark		P.O. NUMBER:	
ADDRESS: 281 Verkmont Rd Ste 100 Charlotte, NC 28208		PRESERVATIVE:	
PHONE: 704-357-8600 FAX:		REQUESTED ANALYSES:	
PROJECT NAME: Duke Energy - Sparta/Anburg		HLL	
PROJECT NUMBER: 6328-12-0021		VOC	
SAMPLED BY: Troy L Holzschuh		Loc: 490	
CLIENT SAMPLE IDENTIFICATION		17957	
SAMPLING DATE/TIME		TA	
1. Trip Blank-3	1-23-13 / 1230	W	R
2. Trip Blank-4	1-23-13 / 1455	W	R
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
RELEASED BY: Troy L Holzschuh	FIRM: AMEC	DATE: 1-23-13	TIME: 10:45
RECEIVED BY: C Bonham	FIRM: TA	DATE: 1-24-13	TIME: 09:00
PRINT NAME: C Bonham	FIRM: TA	PRINT NAME: C Bonham	FIRM: TA
ADDITIONAL REMARKS:			

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-17957-1

SDG Number:

Login Number: 17957

List Number: 1

Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13020173

Customer Name(s): AMEC

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)

Jason C Perkins

Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.02.20 11:37:42 -05'00'

Date: 2/20/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013003283	SPARTANBURG	04-Feb-13 8:00 AM	AMEC	490-18806 Trip Blank - 1
2013003284	SPARTANBURG	04-Feb-13 8:50 AM	AMEC	490-18806 MW-13 ISOC
2013003285	SPARTANBURG	04-Feb-13 10:25 AM	AMEC	490-18806 OS-25S
2013003286	SPARTANBURG	04-Feb-13 11:00 AM	AMEC	490-18806 Trip Blank - 2
2013003287	SPARTANBURG	04-Feb-13 11:15 AM	AMEC	490-18806 OS-20S
2013003288	SPARTANBURG	04-Feb-13 11:55 AM	AMEC	490-18806 OS-15S
2013003289	SPARTANBURG	04-Feb-13 12:00 PM	AMEC	490-18806 Trip Blank - 3
2013003290	SPARTANBURG	04-Feb-13 12:45 PM	AMEC	490-18806 OS-10S
2013003291	SPARTANBURG	04-Feb-13 1:25 PM	AMEC	490-18806 OS-5S
2013003292	SPARTANBURG	04-Feb-13 1:30 PM	AMEC	490-18806 Trip Blank - 4
2013003293	SPARTANBURG	04-Feb-13 2:00 PM	AMEC	490-18806 OS-5E
2013003294	SPARTANBURG	04-Feb-13 2:40 PM	AMEC	490-18806 OS-10E

12 Total Samples

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualifi Test America

Report Sections Included:

- Job Summary Report
- Sample Identification
- Technical Validation of Data Package
- Analytical Laboratory Certificate of Analysis
- Analytical Laboratory QC Report
- Sub-contracted Laboratory Results
- Customer Specific Data Sheets, Reports, & Documentation
- Customer Database Entries
- Chain of Custody
- Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: DBA Account

Date: 2/20/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13020173

Site: 490-18806 Trip Blank - 1
Collection Date: 04-Feb-13 8:00 AM

Sample #: 2013003283
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 MW-13 ISOC
Collection Date: 04-Feb-13 8:50 AM

Sample #: 2013003284
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-25S
Collection Date: 04-Feb-13 10:25 AM

Sample #: 2013003285
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13020173

Site: 490-18806 Trip Blank - 2
Collection Date: 04-Feb-13 11:00 AM

Sample #: 2013003286
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-20S
Collection Date: 04-Feb-13 11:15 AM

Sample #: 2013003287
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-15S
Collection Date: 04-Feb-13 11:55 AM

Sample #: 2013003288
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13020173

Site: 490-18806 Trip Blank - 3
Collection Date: 04-Feb-13 12:00 PM

Sample #: 2013003289
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-10S
Collection Date: 04-Feb-13 12:45 PM

Sample #: 2013003290
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-5S
Collection Date: 04-Feb-13 1:25 PM

Sample #: 2013003291
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13020173

Site: 490-18806 Trip Blank - 4
Collection Date: 04-Feb-13 1:30 PM

Sample #: 2013003292
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-5E
Collection Date: 04-Feb-13 2:00 PM

Sample #: 2013003293
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-18806 OS-10E
Collection Date: 04-Feb-13 2:40 PM

Sample #: 2013003294
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
 TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Tel: (615)726-0177

TestAmerica Job ID: 490-18806-1
 TestAmerica Sample Delivery Group: 6228-12-0021
 Client Project/Site: Pine Street MGP (Spartanburg) J13020173

For:
 Duke Energy Corporation
 13339 Hagers Ferry Road
 Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
 2/20/2013 9:46:26 AM

Shali Brown
 Project Manager I
shali.brown@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-18806-1	Trip Blank-1	Water	02/04/13 08:00	02/06/13 08:30
490-18806-2	MW-13 ISOC	Water	02/04/13 08:50	02/06/13 08:30
490-18806-3	OS-25S	Water	02/04/13 10:25	02/06/13 08:30
490-18806-4	Trip Blank-2	Water	02/04/13 11:00	02/06/13 08:30
490-18806-5	OS-20S	Water	02/04/13 11:15	02/06/13 08:30
490-18806-6	OS-15S	Water	02/04/13 11:55	02/06/13 08:30
490-18806-7	Trip Blank-3	Water	02/04/13 12:00	02/06/13 08:30
490-18806-8	OS-10S	Water	02/04/13 12:45	02/06/13 08:30
490-18806-9	OS-5S	Water	02/04/13 13:25	02/06/13 08:30
490-18806-10	Trip Blank-4	Water	02/04/13 13:30	02/06/13 08:30
490-18806-11	OS-5E	Water	02/04/13 14:00	02/06/13 08:30
490-18806-12	OS-10E	Water	02/04/13 14:40	02/06/13 08:30



Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Job ID: 490-18806-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP (Spartanburg) J13020173

Report Number: 490-18806-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 02/06/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.3° C, 1.3° C, 1.6° C and 1.7° C.

Except:

The following sample(s) was received with headspace in the sample vial: OS-5S (490-18806-9).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Trip Blank-1 (490-18806-1), MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), Trip Blank-2 (490-18806-4), OS-20S (490-18806-5), OS-15S (490-18806-6), Trip Blank-3 (490-18806-7), OS-10S (490-18806-8), OS-5S (490-18806-9), Trip Blank-4 (490-18806-10), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/07/2013 and 02/08/2013.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for MW-13 ISOC (490-18806-2). 1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for OS-5S (490-18806-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 56494 and

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Job ID: 490-18806-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

57129.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: OS-5S (490-18806-9). Sample was analyzed within the 7 day holding time specified for unpreserved samples.

Samples MW-13 ISOC (490-18806-2)[20X], OS-25S (490-18806-3)[5X], OS-20S (490-18806-5)[5X], OS-10S (490-18806-8)[5X] and OS-5S (490-18806-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), OS-20S (490-18806-5), OS-15S (490-18806-6), OS-10S (490-18806-8), OS-5S (490-18806-9), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 02/07/2013 and analyzed on 02/08/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 56992.

Samples MW-13 ISOC (490-18806-2)[10X], OS-25S (490-18806-3)[10X], OS-20S (490-18806-5)[5X] and OS-10S (490-18806-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), OS-20S (490-18806-5), OS-15S (490-18806-6), OS-10S (490-18806-8), OS-5S (490-18806-9), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 02/08/2013 and 02/12/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 57250 and 57250. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

The following sample(s) was diluted due to the nature of the sample matrix: OS-5S (490-18806-9). Elevated reporting limits (RLs) are provided.

Samples MW-13 ISOC (490-18806-2)[5X] and OS-5S (490-18806-9)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), OS-20S (490-18806-5), OS-15S (490-18806-6), OS-10S (490-18806-8), OS-5S (490-18806-9), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 02/07/2013 and analyzed on 02/07/2013 and 02/08/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 56899.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Samples MW-13 ISOC (490-18806-2)[2X] and OS-25S (490-18806-3)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), OS-20S (490-18806-5), OS-15S (490-18806-6), OS-10S (490-18806-8),

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Job ID: 490-18806-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

OS-5S (490-18806-9), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 02/08/2013 and analyzed on 02/08/2013 and 02/11/2013.

The serial dilution performed for the following sample(s) associated with batch 490-57104 was outside control limits for Cr:
490-18806-H-11 (490-18806-11 SD)

The following sample(s) was diluted due to the abundance of non-target analytes: Sodium and Sulfur OS-10S (490-18806-8). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of non-target analytes: Potassium, Sodium and Sulfur. OS-5S (490-18806-9). Elevated reporting limits (RLs) are provided.

Samples OS-10S (490-18806-8)[100X] and OS-5S (490-18806-9)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

SULFATE

Samples MW-13 ISOC (490-18806-2), OS-25S (490-18806-3), OS-20S (490-18806-5), OS-15S (490-18806-6), OS-10S (490-18806-8), OS-5S (490-18806-9), OS-5E (490-18806-11) and OS-10E (490-18806-12) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 02/11/2013, 02/13/2013 and 02/15/2013.

Sulfate failed the recovery criteria low for the MS of sample OS-25SMS (490-18806-3) in batch 490-57820.

Samples MW-13 ISOC (490-18806-2)[200X], OS-25S (490-18806-3)[50X], OS-20S (490-18806-5)[50X], OS-10S (490-18806-8)[200X], OS-5S (490-18806-9)[500X], OS-5E (490-18806-11)[50X] and OS-10E (490-18806-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the sulfate analyses. All other quality control parameters were within the acceptance limits.



Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-18806-1

Date Collected: 02/04/13 08:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 14:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 14:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 14:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 14:38	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 14:38	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 14:38	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 14:38	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 14:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 14:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 14:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 14:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 14:38	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 14:38	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 14:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 14:38	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 14:38	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 14:38	1
2-Hexanone	ND		10.0	ug/L			02/07/13 14:38	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 14:38	1
Acetone	ND		50.0	ug/L			02/07/13 14:38	1
Benzene	ND		1.00	ug/L			02/07/13 14:38	1
Bromobenzene	ND		1.00	ug/L			02/07/13 14:38	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 14:38	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 14:38	1
Bromoform	ND		1.00	ug/L			02/07/13 14:38	1
Bromomethane	ND		1.00	ug/L			02/07/13 14:38	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 14:38	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 14:38	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 14:38	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 14:38	1
Chloroethane	ND		1.00	ug/L			02/07/13 14:38	1
Chloroform	ND		1.00	ug/L			02/07/13 14:38	1
Chloromethane	ND		1.00	ug/L			02/07/13 14:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 14:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 14:38	1
Dibromomethane	ND		1.00	ug/L			02/07/13 14:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 14:38	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 14:38	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 14:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-18806-1

Date Collected: 02/04/13 08:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 14:38	1
Naphthalene	ND		5.00	ug/L			02/07/13 14:38	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 14:38	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
Styrene	ND		1.00	ug/L			02/07/13 14:38	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 14:38	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 14:38	1
Toluene	ND		1.00	ug/L			02/07/13 14:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 14:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 14:38	1
Trichloroethene	ND		1.00	ug/L			02/07/13 14:38	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 14:38	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 14:38	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		02/07/13 14:38	1
4-Bromofluorobenzene (Surr)	108		70 - 130		02/07/13 14:38	1
Dibromofluoromethane (Surr)	103		70 - 130		02/07/13 14:38	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 14:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-18806-2

Date Collected: 02/04/13 08:50

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 16:32	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 16:32	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 16:32	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 16:32	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 16:32	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 16:32	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 16:32	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 16:32	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 16:32	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
1,2,4-Trimethylbenzene	108		1.00	ug/L			02/07/13 16:32	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 16:32	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 16:32	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 16:32	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 16:32	1
1,3,5-Trimethylbenzene	33.4		1.00	ug/L			02/07/13 16:32	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 16:32	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 16:32	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 16:32	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 16:32	1
2-Hexanone	ND		10.0	ug/L			02/07/13 16:32	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 16:32	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 16:32	1
Acetone	209		50.0	ug/L			02/07/13 16:32	1
Benzene	714		20.0	ug/L			02/08/13 16:11	20
Bromobenzene	ND		1.00	ug/L			02/07/13 16:32	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 16:32	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 16:32	1
Bromoform	ND		1.00	ug/L			02/07/13 16:32	1
Bromomethane	3.14		1.00	ug/L			02/07/13 16:32	1
Carbon disulfide	1.09		1.00	ug/L			02/07/13 16:32	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 16:32	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 16:32	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 16:32	1
Chloroethane	ND		1.00	ug/L			02/07/13 16:32	1
Chloroform	ND		1.00	ug/L			02/07/13 16:32	1
Chloromethane	2.81		1.00	ug/L			02/07/13 16:32	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 16:32	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 16:32	1
Dibromomethane	ND		1.00	ug/L			02/07/13 16:32	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 16:32	1
Ethylbenzene	127		1.00	ug/L			02/07/13 16:32	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 16:32	1
Isopropylbenzene	3.67		1.00	ug/L			02/07/13 16:32	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 16:32	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-18806-2

Date Collected: 02/04/13 08:50

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 16:32	1
Naphthalene	1420		100	ug/L			02/08/13 16:11	20
n-Butylbenzene	ND		1.00	ug/L			02/07/13 16:32	1
N-Propylbenzene	1.69		1.00	ug/L			02/07/13 16:32	1
p-Isopropyltoluene	3.45		1.00	ug/L			02/07/13 16:32	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 16:32	1
Styrene	ND		1.00	ug/L			02/07/13 16:32	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 16:32	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 16:32	1
Toluene	453		20.0	ug/L			02/08/13 16:11	20
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 16:32	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 16:32	1
Trichloroethene	ND		1.00	ug/L			02/07/13 16:32	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 16:32	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 16:32	1
Xylenes, Total	542		60.0	ug/L			02/08/13 16:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131	X	70 - 130		02/07/13 16:32	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/08/13 16:11	20
4-Bromofluorobenzene (Surr)	97		70 - 130		02/07/13 16:32	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/08/13 16:11	20
Dibromofluoromethane (Surr)	104		70 - 130		02/07/13 16:32	1
Dibromofluoromethane (Surr)	103		70 - 130		02/08/13 16:11	20
Toluene-d8 (Surr)	98		70 - 130		02/07/13 16:32	1
Toluene-d8 (Surr)	99		70 - 130		02/08/13 16:11	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
1,2-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
1,3-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
1,4-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
1-Methylnaphthalene	65.9		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4,5-Trichlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4-Dichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4-Dimethylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4-Dinitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,4-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2,6-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Chloronaphthalene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Chlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Methylnaphthalene	50.4		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Methylphenol	12.5		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
2-Nitrophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
3 & 4 Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
3-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-18806-2

Date Collected: 02/04/13 08:50

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Chloroaniline	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
4-Nitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
Acenaphthylene	3.68		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Acenaphthene	2.97		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Benzo[a]anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Benzo[a]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Benzo[b]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Benzo[k]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Butyl benzyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Carbazole	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Chrysene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Cresols	12.5		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Dibenzofuran	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Diethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Dimethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Di-n-butyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Di-n-octyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Fluorene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Hexachlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Hexachlorobutadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Hexachloroethane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Isophorone	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Naphthalene	844		23.5	ug/L		02/07/13 15:17	02/08/13 18:26	10
Nitrobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Pentachlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 12:43	1
Phenanthrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Phenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 12:43	1
Pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 120			02/07/13 15:17	02/08/13 12:43	1
2-Fluorobiphenyl (Surr)	54		29 - 120			02/07/13 15:17	02/08/13 12:43	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-18806-2

Date Collected: 02/04/13 08:50

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	37		10 - 120	02/07/13 15:17	02/08/13 12:43	1
Nitrobenzene-d5 (Surr)	50		27 - 120	02/07/13 15:17	02/08/13 12:43	1
Phenol-d5 (Surr)	26		10 - 120	02/07/13 15:17	02/08/13 12:43	1
Terphenyl-d14 (Surr)	61		13 - 120	02/07/13 15:17	02/08/13 12:43	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	3520		500	ug/L			02/08/13 20:21	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	98		50 - 150		02/08/13 20:21	5		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6350		222	ug/L		02/07/13 12:07	02/08/13 14:09	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	97		50 - 150		02/07/13 12:07	02/08/13 14:09	2	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7320		200	mg/L			02/13/13 19:17	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:15	1
Chromium	0.0202		0.00500	mg/L		02/08/13 08:18	02/08/13 16:15	1
Cobalt	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 16:15	1
Copper	0.0457		0.0100	mg/L		02/08/13 08:18	02/08/13 16:15	1
Iron	0.933		0.100	mg/L		02/08/13 08:18	02/08/13 16:15	1
Lead	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:15	1
Manganese	1.91		0.0150	mg/L		02/08/13 08:18	02/08/13 16:15	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:15	1
Selenium	0.0235		0.0100	mg/L		02/08/13 08:18	02/08/13 16:15	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:15	1
Vanadium	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 16:15	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-25S

Lab Sample ID: 490-18806-3

Date Collected: 02/04/13 10:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 17:57	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 17:57	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 17:57	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 17:57	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 17:57	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 17:57	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 17:57	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 17:57	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 17:57	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
1,2,4-Trimethylbenzene	21.0		1.00	ug/L			02/07/13 17:57	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 17:57	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 17:57	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 17:57	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 17:57	1
1,3,5-Trimethylbenzene	7.85		1.00	ug/L			02/07/13 17:57	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 17:57	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 17:57	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 17:57	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 17:57	1
2-Hexanone	ND		10.0	ug/L			02/07/13 17:57	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 17:57	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 17:57	1
Acetone	62.9		50.0	ug/L			02/07/13 17:57	1
Benzene	23.9		1.00	ug/L			02/07/13 17:57	1
Bromobenzene	ND		1.00	ug/L			02/07/13 17:57	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 17:57	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 17:57	1
Bromoform	ND		1.00	ug/L			02/07/13 17:57	1
Bromomethane	3.36		1.00	ug/L			02/07/13 17:57	1
Carbon disulfide	21.4		1.00	ug/L			02/07/13 17:57	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 17:57	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 17:57	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 17:57	1
Chloroethane	ND		1.00	ug/L			02/07/13 17:57	1
Chloroform	ND		1.00	ug/L			02/07/13 17:57	1
Chloromethane	ND		1.00	ug/L			02/07/13 17:57	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 17:57	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 17:57	1
Dibromomethane	ND		1.00	ug/L			02/07/13 17:57	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 17:57	1
Ethylbenzene	11.9		1.00	ug/L			02/07/13 17:57	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 17:57	1
Isopropylbenzene	3.79		1.00	ug/L			02/07/13 17:57	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 17:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-25S

Lab Sample ID: 490-18806-3

Date Collected: 02/04/13 10:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 17:57	1
Naphthalene	377		25.0	ug/L			02/08/13 14:16	5
n-Butylbenzene	ND		1.00	ug/L			02/07/13 17:57	1
N-Propylbenzene	2.76		1.00	ug/L			02/07/13 17:57	1
p-Isopropyltoluene	1.30		1.00	ug/L			02/07/13 17:57	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 17:57	1
Styrene	ND		1.00	ug/L			02/07/13 17:57	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 17:57	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 17:57	1
Toluene	2.10		1.00	ug/L			02/07/13 17:57	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 17:57	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 17:57	1
Trichloroethene	ND		1.00	ug/L			02/07/13 17:57	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 17:57	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 17:57	1
Xylenes, Total	8.04		3.00	ug/L			02/07/13 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/07/13 17:57	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		02/08/13 14:16	5
4-Bromofluorobenzene (Surr)	103		70 - 130		02/07/13 17:57	1
4-Bromofluorobenzene (Surr)	104		70 - 130		02/08/13 14:16	5
Dibromofluoromethane (Surr)	102		70 - 130		02/07/13 17:57	1
Dibromofluoromethane (Surr)	103		70 - 130		02/08/13 14:16	5
Toluene-d8 (Surr)	96		70 - 130		02/07/13 17:57	1
Toluene-d8 (Surr)	95		70 - 130		02/08/13 14:16	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
1,2-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
1,3-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
1,4-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
1-Methylnaphthalene	448		23.5	ug/L		02/07/13 15:17	02/08/13 18:47	10
2,4,5-Trichlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,4-Dichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,4-Dimethylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,4-Dinitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,4-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2,6-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Chloronaphthalene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Chlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Methylnaphthalene	62.1		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
2-Nitrophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
3 & 4 Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
3-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-25S

Lab Sample ID: 490-18806-3

Date Collected: 02/04/13 10:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Chloroaniline	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
4-Nitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
Acenaphthylene	13.5		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Acenaphthene	95.7		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Benzo[a]anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Benzo[a]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Benzo[b]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Benzo[k]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Anthracene	7.12		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Butyl benzyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Carbazole	20.0		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Chrysene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Cresols	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Dibenzofuran	33.3		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Diethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Dimethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Di-n-butyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Di-n-octyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Fluorene	46.7		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Hexachlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Hexachlorobutadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Hexachloroethane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Isophorone	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Naphthalene	371		23.5	ug/L		02/07/13 15:17	02/08/13 18:47	10
Nitrobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Pentachlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 13:04	1
Phenanthrene	47.2		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Phenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 13:04	1
Pyrene	2.74		2.35	ug/L		02/07/13 15:17	02/08/13 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120			02/07/13 15:17	02/08/13 13:04	1
2-Fluorobiphenyl (Surr)	65		29 - 120			02/07/13 15:17	02/08/13 13:04	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-25S

Lab Sample ID: 490-18806-3

Date Collected: 02/04/13 10:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	42		10 - 120	02/07/13 15:17	02/08/13 13:04	1
Nitrobenzene-d5 (Surr)	61		27 - 120	02/07/13 15:17	02/08/13 13:04	1
Phenol-d5 (Surr)	28		10 - 120	02/07/13 15:17	02/08/13 13:04	1
Terphenyl-d14 (Surr)	80		13 - 120	02/07/13 15:17	02/08/13 13:04	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	221		100	ug/L			02/12/13 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150		02/12/13 11:55	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4680		235	ug/L		02/07/13 12:07	02/08/13 14:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	117		50 - 150	02/07/13 12:07	02/08/13 14:24	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1820		50.0	mg/L			02/13/13 19:36	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:18	1
Chromium	0.0374		0.00500	mg/L		02/08/13 08:18	02/08/13 16:18	1
Cobalt	0.0340		0.0200	mg/L		02/08/13 08:18	02/08/13 16:18	1
Copper	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:18	1
Iron	24.5		0.100	mg/L		02/08/13 08:18	02/08/13 16:18	1
Lead	0.00660		0.00500	mg/L		02/08/13 08:18	02/08/13 16:18	1
Manganese	2.92		0.0150	mg/L		02/08/13 08:18	02/08/13 16:18	1
Nickel	0.0194		0.0100	mg/L		02/08/13 08:18	02/08/13 16:18	1
Selenium	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:18	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:18	1
Vanadium	0.0262		0.0200	mg/L		02/08/13 08:18	02/08/13 16:18	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-18806-4

Date Collected: 02/04/13 11:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 15:06	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 15:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 15:06	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 15:06	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 15:06	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 15:06	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 15:06	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 15:06	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 15:06	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 15:06	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 15:06	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 15:06	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 15:06	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 15:06	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 15:06	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 15:06	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 15:06	1
2-Hexanone	ND		10.0	ug/L			02/07/13 15:06	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 15:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 15:06	1
Acetone	ND		50.0	ug/L			02/07/13 15:06	1
Benzene	ND		1.00	ug/L			02/07/13 15:06	1
Bromobenzene	ND		1.00	ug/L			02/07/13 15:06	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 15:06	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 15:06	1
Bromoform	ND		1.00	ug/L			02/07/13 15:06	1
Bromomethane	ND		1.00	ug/L			02/07/13 15:06	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 15:06	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 15:06	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 15:06	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 15:06	1
Chloroethane	ND		1.00	ug/L			02/07/13 15:06	1
Chloroform	ND		1.00	ug/L			02/07/13 15:06	1
Chloromethane	ND		1.00	ug/L			02/07/13 15:06	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 15:06	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 15:06	1
Dibromomethane	ND		1.00	ug/L			02/07/13 15:06	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 15:06	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 15:06	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 15:06	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-18806-4

Date Collected: 02/04/13 11:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 15:06	1
Naphthalene	ND		5.00	ug/L			02/07/13 15:06	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 15:06	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
Styrene	ND		1.00	ug/L			02/07/13 15:06	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 15:06	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 15:06	1
Toluene	ND		1.00	ug/L			02/07/13 15:06	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 15:06	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 15:06	1
Trichloroethene	ND		1.00	ug/L			02/07/13 15:06	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 15:06	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 15:06	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/07/13 15:06	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/07/13 15:06	1
Dibromofluoromethane (Surr)	102		70 - 130		02/07/13 15:06	1
Toluene-d8 (Surr)	99		70 - 130		02/07/13 15:06	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-20S

Lab Sample ID: 490-18806-5

Date Collected: 02/04/13 11:15

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 18:26	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 18:26	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 18:26	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 18:26	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 18:26	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 18:26	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 18:26	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 18:26	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
1,2,4-Trimethylbenzene	2.30		1.00	ug/L			02/07/13 18:26	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 18:26	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 18:26	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 18:26	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 18:26	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 18:26	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 18:26	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 18:26	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 18:26	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 18:26	1
2-Hexanone	ND		10.0	ug/L			02/07/13 18:26	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 18:26	1
Acetone	53.2		50.0	ug/L			02/07/13 18:26	1
Benzene	2.07		1.00	ug/L			02/07/13 18:26	1
Bromobenzene	ND		1.00	ug/L			02/07/13 18:26	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 18:26	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 18:26	1
Bromoform	ND		1.00	ug/L			02/07/13 18:26	1
Bromomethane	3.19		1.00	ug/L			02/07/13 18:26	1
Carbon disulfide	9.81		1.00	ug/L			02/07/13 18:26	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 18:26	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 18:26	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 18:26	1
Chloroethane	ND		1.00	ug/L			02/07/13 18:26	1
Chloroform	ND		1.00	ug/L			02/07/13 18:26	1
Chloromethane	ND		1.00	ug/L			02/07/13 18:26	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 18:26	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 18:26	1
Dibromomethane	ND		1.00	ug/L			02/07/13 18:26	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 18:26	1
Ethylbenzene	3.29		1.00	ug/L			02/07/13 18:26	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 18:26	1
Isopropylbenzene	1.10		1.00	ug/L			02/07/13 18:26	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 18:26	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-20S

Lab Sample ID: 490-18806-5

Date Collected: 02/04/13 11:15

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 18:26	1
Naphthalene	236		25.0	ug/L			02/08/13 14:45	5
n-Butylbenzene	ND		1.00	ug/L			02/07/13 18:26	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 18:26	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 18:26	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 18:26	1
Styrene	ND		1.00	ug/L			02/07/13 18:26	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 18:26	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 18:26	1
Toluene	ND		1.00	ug/L			02/07/13 18:26	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 18:26	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 18:26	1
Trichloroethene	ND		1.00	ug/L			02/07/13 18:26	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 18:26	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 18:26	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		02/07/13 18:26	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		02/08/13 14:45	5
4-Bromofluorobenzene (Surr)	106		70 - 130		02/07/13 18:26	1
4-Bromofluorobenzene (Surr)	102		70 - 130		02/08/13 14:45	5
Dibromofluoromethane (Surr)	100		70 - 130		02/07/13 18:26	1
Dibromofluoromethane (Surr)	101		70 - 130		02/08/13 14:45	5
Toluene-d8 (Surr)	98		70 - 130		02/07/13 18:26	1
Toluene-d8 (Surr)	97		70 - 130		02/08/13 14:45	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
1,2-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
1,3-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
1,4-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
1-Methylnaphthalene	189		12.5	ug/L		02/07/13 15:17	02/08/13 19:08	5
2,4,5-Trichlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,4-Dichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,4-Dimethylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,4-Dinitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,4-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2,6-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Chloronaphthalene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Chlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Methylnaphthalene	91.8		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
2-Nitrophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
3 & 4 Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
3-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-20S

Lab Sample ID: 490-18806-5

Date Collected: 02/04/13 11:15

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Chloroaniline	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
4-Nitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
Acenaphthylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Acenaphthene	38.6		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Benzo[a]anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Benzo[a]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Benzo[b]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Benzo[k]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Butyl benzyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Carbazole	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Chrysene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Cresols	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Dibenzofuran	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Diethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Dimethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Di-n-butyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Di-n-octyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Fluorene	16.0		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Hexachlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Hexachlorobutadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Hexachloroethane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Isophorone	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Naphthalene	218		12.5	ug/L		02/07/13 15:17	02/08/13 19:08	5
Nitrobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Pentachlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:26	1
Phenanthrene	16.8		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Phenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:26	1
Pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			02/07/13 15:17	02/08/13 13:26	1
2-Fluorobiphenyl (Surr)	65		29 - 120			02/07/13 15:17	02/08/13 13:26	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-20S

Lab Sample ID: 490-18806-5

Date Collected: 02/04/13 11:15

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	47		10 - 120	02/07/13 15:17	02/08/13 13:26	1
Nitrobenzene-d5 (Surr)	61		27 - 120	02/07/13 15:17	02/08/13 13:26	1
Phenol-d5 (Surr)	35		10 - 120	02/07/13 15:17	02/08/13 13:26	1
Terphenyl-d14 (Surr)	72		13 - 120	02/07/13 15:17	02/08/13 13:26	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150		02/08/13 17:50	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2200		118	ug/L		02/07/13 12:07	02/07/13 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	100		50 - 150	02/07/13 12:07	02/07/13 18:59	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2020		50.0	mg/L			02/13/13 19:55	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:22	1
Chromium	0.0443		0.00500	mg/L		02/08/13 08:18	02/08/13 16:22	1
Cobalt	0.0243		0.0200	mg/L		02/08/13 08:18	02/08/13 16:22	1
Copper	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:22	1
Iron	9.45		0.100	mg/L		02/08/13 08:18	02/08/13 16:22	1
Lead	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:22	1
Manganese	3.25		0.0150	mg/L		02/08/13 08:18	02/08/13 16:22	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:22	1
Selenium	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:22	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:22	1
Vanadium	0.0202		0.0200	mg/L		02/08/13 08:18	02/08/13 16:22	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-15S

Lab Sample ID: 490-18806-6

Date Collected: 02/04/13 11:55

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 13:19	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/08/13 13:19	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 13:19	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/08/13 13:19	1
1,1-Dichloroethane	ND		1.00	ug/L			02/08/13 13:19	1
Diisopropyl ether	ND		2.00	ug/L			02/08/13 13:19	1
1,1-Dichloroethene	ND		1.00	ug/L			02/08/13 13:19	1
1,1-Dichloropropene	ND		1.00	ug/L			02/08/13 13:19	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/08/13 13:19	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
1,2,4-Trimethylbenzene	11.2		1.00	ug/L			02/08/13 13:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/08/13 13:19	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/08/13 13:19	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
1,2-Dichloroethane	ND		1.00	ug/L			02/08/13 13:19	1
1,2-Dichloropropane	ND		1.00	ug/L			02/08/13 13:19	1
1,3,5-Trimethylbenzene	4.11		1.00	ug/L			02/08/13 13:19	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
1,3-Dichloropropane	ND		1.00	ug/L			02/08/13 13:19	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
2,2-Dichloropropane	ND		1.00	ug/L			02/08/13 13:19	1
2-Butanone (MEK)	ND		50.0	ug/L			02/08/13 13:19	1
2-Chlorotoluene	ND		1.00	ug/L			02/08/13 13:19	1
2-Hexanone	ND		10.0	ug/L			02/08/13 13:19	1
4-Chlorotoluene	ND		1.00	ug/L			02/08/13 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/08/13 13:19	1
Acetone	ND		50.0	ug/L			02/08/13 13:19	1
Benzene	ND		1.00	ug/L			02/08/13 13:19	1
Bromobenzene	ND		1.00	ug/L			02/08/13 13:19	1
Bromochloromethane	ND		1.00	ug/L			02/08/13 13:19	1
Bromodichloromethane	ND		1.00	ug/L			02/08/13 13:19	1
Bromoform	ND		1.00	ug/L			02/08/13 13:19	1
Bromomethane	ND		1.00	ug/L			02/08/13 13:19	1
Carbon disulfide	ND		1.00	ug/L			02/08/13 13:19	1
Carbon tetrachloride	ND		1.00	ug/L			02/08/13 13:19	1
Chlorobenzene	ND		1.00	ug/L			02/08/13 13:19	1
Chlorodibromomethane	ND		1.00	ug/L			02/08/13 13:19	1
Chloroethane	ND		1.00	ug/L			02/08/13 13:19	1
Chloroform	ND		1.00	ug/L			02/08/13 13:19	1
Chloromethane	ND		1.00	ug/L			02/08/13 13:19	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 13:19	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 13:19	1
Dibromomethane	ND		1.00	ug/L			02/08/13 13:19	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/08/13 13:19	1
Ethylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
Hexachlorobutadiene	ND		2.00	ug/L			02/08/13 13:19	1
Isopropylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/08/13 13:19	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-15S

Lab Sample ID: 490-18806-6

Date Collected: 02/04/13 11:55

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/08/13 13:19	1
Naphthalene	69.8		5.00	ug/L			02/08/13 13:19	1
n-Butylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
N-Propylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
p-Isopropyltoluene	ND		1.00	ug/L			02/08/13 13:19	1
sec-Butylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
Styrene	ND		1.00	ug/L			02/08/13 13:19	1
tert-Butylbenzene	ND		1.00	ug/L			02/08/13 13:19	1
Tetrachloroethene	ND		1.00	ug/L			02/08/13 13:19	1
Toluene	ND		1.00	ug/L			02/08/13 13:19	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 13:19	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 13:19	1
Trichloroethene	ND		1.00	ug/L			02/08/13 13:19	1
Trichlorofluoromethane	ND		1.00	ug/L			02/08/13 13:19	1
Vinyl chloride	ND		1.00	ug/L			02/08/13 13:19	1
Xylenes, Total	ND		3.00	ug/L			02/08/13 13:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	122		70 - 130				02/08/13 13:19	1
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130				02/08/13 13:19	1
<i>Dibromofluoromethane (Surr)</i>	100		70 - 130				02/08/13 13:19	1
<i>Toluene-d8 (Surr)</i>	97		70 - 130				02/08/13 13:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
1,2-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
1,3-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
1,4-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
1-Methylnaphthalene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4,5-Trichlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4-Dichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4-Dimethylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4-Dinitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,4-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2,6-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Chloronaphthalene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Chlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Methylnaphthalene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
2-Nitrophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
3 & 4 Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
3-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-15S

Lab Sample ID: 490-18806-6

Date Collected: 02/04/13 11:55

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
4-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
4-Nitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
Acenaphthylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Acenaphthene	6.29		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Benzo[a]anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Benzo[a]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Benzo[b]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Benzo[k]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Butyl benzyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Carbazole	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Chrysene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Cresols	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Dibenzofuran	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Diethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Dimethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Di-n-butyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Di-n-octyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Fluorene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Hexachlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Hexachlorobutadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Hexachloroethane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Isophorone	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Naphthalene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Nitrobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Pentachlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 13:47	1
Phenanthrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
Phenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 13:47	1
Pyrene	3.33		2.50	ug/L		02/07/13 15:17	02/08/13 13:47	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	72		10 - 120			02/07/13 15:17	02/08/13 13:47	1
<i>2-Fluorobiphenyl (Surr)</i>	56		29 - 120			02/07/13 15:17	02/08/13 13:47	1
<i>2-Fluorophenol (Surr)</i>	41		10 - 120			02/07/13 15:17	02/08/13 13:47	1
<i>Nitrobenzene-d5 (Surr)</i>	55		27 - 120			02/07/13 15:17	02/08/13 13:47	1
<i>Phenol-d5 (Surr)</i>	30		10 - 120			02/07/13 15:17	02/08/13 13:47	1
<i>Terphenyl-d14 (Surr)</i>	78		13 - 120			02/07/13 15:17	02/08/13 13:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-15S

Lab Sample ID: 490-18806-6

Date Collected: 02/04/13 11:55

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 18:20	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	98		50 - 150				02/08/13 18:20	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	933		125	ug/L		02/07/13 12:07	02/07/13 19:15	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	93		50 - 150			02/07/13 12:07	02/07/13 19:15	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	45.6		1.00	mg/L			02/11/13 21:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:25	1
Chromium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:25	1
Cobalt	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 16:25	1
Copper	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:25	1
Iron	0.487		0.100	mg/L		02/08/13 08:18	02/08/13 16:25	1
Lead	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:25	1
Manganese	1.35		0.0150	mg/L		02/08/13 08:18	02/08/13 16:25	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:25	1
Selenium	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:25	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:25	1
Vanadium	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 16:25	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-18806-7

Date Collected: 02/04/13 12:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 15:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 15:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 15:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 15:35	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 15:35	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 15:35	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 15:35	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 15:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 15:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 15:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 15:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 15:35	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 15:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 15:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 15:35	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 15:35	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 15:35	1
2-Hexanone	ND		10.0	ug/L			02/07/13 15:35	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 15:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 15:35	1
Acetone	ND		50.0	ug/L			02/07/13 15:35	1
Benzene	ND		1.00	ug/L			02/07/13 15:35	1
Bromobenzene	ND		1.00	ug/L			02/07/13 15:35	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 15:35	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 15:35	1
Bromoform	ND		1.00	ug/L			02/07/13 15:35	1
Bromomethane	ND		1.00	ug/L			02/07/13 15:35	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 15:35	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 15:35	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 15:35	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 15:35	1
Chloroethane	ND		1.00	ug/L			02/07/13 15:35	1
Chloroform	ND		1.00	ug/L			02/07/13 15:35	1
Chloromethane	ND		1.00	ug/L			02/07/13 15:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 15:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 15:35	1
Dibromomethane	ND		1.00	ug/L			02/07/13 15:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 15:35	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 15:35	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 15:35	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-18806-7

Date Collected: 02/04/13 12:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 15:35	1
Naphthalene	ND		5.00	ug/L			02/07/13 15:35	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 15:35	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
Styrene	ND		1.00	ug/L			02/07/13 15:35	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 15:35	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 15:35	1
Toluene	ND		1.00	ug/L			02/07/13 15:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 15:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 15:35	1
Trichloroethene	ND		1.00	ug/L			02/07/13 15:35	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 15:35	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 15:35	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		02/07/13 15:35	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/07/13 15:35	1
Dibromofluoromethane (Surr)	102		70 - 130		02/07/13 15:35	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 15:35	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 19:23	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 19:23	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 19:23	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 19:23	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 19:23	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 19:23	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 19:23	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 19:23	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 19:23	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
1,2,4-Trimethylbenzene	1.07		1.00	ug/L			02/07/13 19:23	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 19:23	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 19:23	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 19:23	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 19:23	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 19:23	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 19:23	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 19:23	1
2-Butanone (MEK)	69.6		50.0	ug/L			02/07/13 19:23	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 19:23	1
2-Hexanone	ND		10.0	ug/L			02/07/13 19:23	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 19:23	1
Acetone	803		50.0	ug/L			02/07/13 19:23	1
Benzene	ND		1.00	ug/L			02/07/13 19:23	1
Bromobenzene	ND		1.00	ug/L			02/07/13 19:23	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 19:23	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 19:23	1
Bromoform	ND		1.00	ug/L			02/07/13 19:23	1
Bromomethane	59.8		1.00	ug/L			02/07/13 19:23	1
Carbon disulfide	5.52		1.00	ug/L			02/07/13 19:23	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 19:23	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 19:23	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 19:23	1
Chloroethane	ND		1.00	ug/L			02/07/13 19:23	1
Chloroform	ND		1.00	ug/L			02/07/13 19:23	1
Chloromethane	58.3		1.00	ug/L			02/07/13 19:23	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 19:23	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 19:23	1
Dibromomethane	ND		1.00	ug/L			02/07/13 19:23	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 19:23	1
Ethylbenzene	6.08		1.00	ug/L			02/07/13 19:23	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 19:23	1
Isopropylbenzene	1.68		1.00	ug/L			02/07/13 19:23	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 19:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 19:23	1
Naphthalene	178		25.0	ug/L			02/08/13 15:13	5
n-Butylbenzene	ND		1.00	ug/L			02/07/13 19:23	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 19:23	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 19:23	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 19:23	1
Styrene	ND		1.00	ug/L			02/07/13 19:23	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 19:23	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 19:23	1
Toluene	ND		1.00	ug/L			02/07/13 19:23	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 19:23	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 19:23	1
Trichloroethene	ND		1.00	ug/L			02/07/13 19:23	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 19:23	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 19:23	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		70 - 130		02/07/13 19:23	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/08/13 15:13	5
4-Bromofluorobenzene (Surr)	106		70 - 130		02/07/13 19:23	1
4-Bromofluorobenzene (Surr)	105		70 - 130		02/08/13 15:13	5
Dibromofluoromethane (Surr)	103		70 - 130		02/07/13 19:23	1
Dibromofluoromethane (Surr)	103		70 - 130		02/08/13 15:13	5
Toluene-d8 (Surr)	97		70 - 130		02/07/13 19:23	1
Toluene-d8 (Surr)	98		70 - 130		02/08/13 15:13	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
1,2-Dichlorobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
1,3-Dichlorobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
1,4-Dichlorobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
1-Methylnaphthalene	150		11.1	ug/L		02/07/13 15:17	02/08/13 19:29	5
2,4,5-Trichlorophenol	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,4-Dichlorophenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,4-Dimethylphenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,4-Dinitrophenol	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,4-Dinitrotoluene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2,6-Dinitrotoluene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2-Chloronaphthalene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2-Chlorophenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2-Methylnaphthalene	127		11.1	ug/L		02/07/13 15:17	02/08/13 19:29	5
2-Methylphenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
2-Nitroaniline	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
2-Nitrophenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
3 & 4 Methylphenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
3-Nitroaniline	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Chloroaniline	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Nitroaniline	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
4-Nitrophenol	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
Acenaphthylene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Acenaphthene	21.9		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Benzo[a]anthracene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Benzo[a]pyrene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Benzo[b]fluoranthene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Benzo[k]fluoranthene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Anthracene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Butyl benzyl phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Carbazole	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Chrysene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Cresols	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Dibenzofuran	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Diethyl phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Dimethyl phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Di-n-butyl phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Di-n-octyl phthalate	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Fluoranthene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Fluorene	15.7		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Hexachlorobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Hexachlorobutadiene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Hexachloroethane	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Isophorone	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Naphthalene	169		11.1	ug/L		02/07/13 15:17	02/08/13 19:29	5
Nitrobenzene	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Pentachlorophenol	ND		27.8	ug/L		02/07/13 15:17	02/08/13 14:09	1
Phenanthrene	26.7		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Phenol	ND		11.1	ug/L		02/07/13 15:17	02/08/13 14:09	1
Pyrene	ND		2.22	ug/L		02/07/13 15:17	02/08/13 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			02/07/13 15:17	02/08/13 14:09	1
2-Fluorobiphenyl (Surr)	62		29 - 120			02/07/13 15:17	02/08/13 14:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	44		10 - 120	02/07/13 15:17	02/08/13 14:09	1
Nitrobenzene-d5 (Surr)	59		27 - 120	02/07/13 15:17	02/08/13 14:09	1
Phenol-d5 (Surr)	39		10 - 120	02/07/13 15:17	02/08/13 14:09	1
Terphenyl-d14 (Surr)	73		13 - 120	02/07/13 15:17	02/08/13 14:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		02/08/13 18:51	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3070		118	ug/L		02/07/13 12:07	02/07/13 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	85		50 - 150	02/07/13 12:07	02/07/13 19:31	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	11800		200	mg/L			02/13/13 20:33	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		02/08/13 08:18	02/11/13 12:48	100
Chromium	ND		0.500	mg/L		02/08/13 08:18	02/11/13 12:48	100
Cobalt	ND		2.00	mg/L		02/08/13 08:18	02/11/13 12:48	100
Copper	ND		1.00	mg/L		02/08/13 08:18	02/11/13 12:48	100
Iron	ND		10.0	mg/L		02/08/13 08:18	02/11/13 12:48	100
Lead	ND		0.500	mg/L		02/08/13 08:18	02/11/13 12:48	100
Manganese	19.7		1.50	mg/L		02/08/13 08:18	02/11/13 12:48	100
Nickel	ND		1.00	mg/L		02/08/13 08:18	02/11/13 12:48	100
Selenium	ND		1.00	mg/L		02/08/13 08:18	02/11/13 12:48	100
Thallium	ND		0.500	mg/L		02/08/13 08:18	02/11/13 12:48	100
Vanadium	ND		2.00	mg/L		02/08/13 08:18	02/11/13 12:48	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5S

Lab Sample ID: 490-18806-9

Date Collected: 02/04/13 13:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 20:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 20:48	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 20:48	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 20:48	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 20:48	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 20:48	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 20:48	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 20:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 20:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 20:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 20:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 20:48	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 20:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 20:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 20:48	1
2-Butanone (MEK)	239		50.0	ug/L			02/07/13 20:48	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 20:48	1
2-Hexanone	ND		10.0	ug/L			02/07/13 20:48	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 20:48	1
Acetone	2060		250	ug/L			02/08/13 15:42	5
Benzene	ND		1.00	ug/L			02/07/13 20:48	1
Bromobenzene	ND		1.00	ug/L			02/07/13 20:48	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 20:48	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 20:48	1
Bromoform	ND		1.00	ug/L			02/07/13 20:48	1
Bromomethane	120		1.00	ug/L			02/07/13 20:48	1
Carbon disulfide	2.86		1.00	ug/L			02/07/13 20:48	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 20:48	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 20:48	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 20:48	1
Chloroethane	ND		1.00	ug/L			02/07/13 20:48	1
Chloroform	ND		1.00	ug/L			02/07/13 20:48	1
Chloromethane	133		1.00	ug/L			02/07/13 20:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 20:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 20:48	1
Dibromomethane	ND		1.00	ug/L			02/07/13 20:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 20:48	1
Ethylbenzene	2.94		1.00	ug/L			02/07/13 20:48	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 20:48	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 20:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5S

Lab Sample ID: 490-18806-9

Date Collected: 02/04/13 13:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 20:48	1
Naphthalene	32.2		5.00	ug/L			02/07/13 20:48	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 20:48	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
Styrene	ND		1.00	ug/L			02/07/13 20:48	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 20:48	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 20:48	1
Toluene	ND		1.00	ug/L			02/07/13 20:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 20:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 20:48	1
Trichloroethene	ND		1.00	ug/L			02/07/13 20:48	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 20:48	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 20:48	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	145	X	70 - 130		02/07/13 20:48	1
1,2-Dichloroethane-d4 (Surr)	128		70 - 130		02/08/13 15:42	5
4-Bromofluorobenzene (Surr)	123		70 - 130		02/07/13 20:48	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/08/13 15:42	5
Dibromofluoromethane (Surr)	106		70 - 130		02/07/13 20:48	1
Dibromofluoromethane (Surr)	103		70 - 130		02/08/13 15:42	5
Toluene-d8 (Surr)	98		70 - 130		02/07/13 20:48	1
Toluene-d8 (Surr)	97		70 - 130		02/08/13 15:42	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
1,2-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
1,3-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
1,4-Dichlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
1-Methylnaphthalene	48.6		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4,5-Trichlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4-Dichlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4-Dimethylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4-Dinitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,4-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2,6-Dinitrotoluene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Chloronaphthalene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Chlorophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Methylnaphthalene	39.1		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
2-Nitrophenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
3 & 4 Methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
3-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5S

Lab Sample ID: 490-18806-9

Date Collected: 02/04/13 13:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Chloroaniline	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Nitroaniline	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
4-Nitrophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
Acenaphthylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Acenaphthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Benzo[a]anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Benzo[a]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Benzo[b]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Benzo[k]fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Butyl benzyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Carbazole	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Chrysene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Cresols	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Dibenzofuran	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Diethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Dimethyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Di-n-butyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Di-n-octyl phthalate	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Fluoranthene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Fluorene	9.40		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Hexachlorobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Hexachlorobutadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Hexachloroethane	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Isophorone	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Naphthalene	108		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Nitrobenzene	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Pentachlorophenol	ND		31.3	ug/L		02/07/13 15:17	02/08/13 14:30	1
Phenanthrene	12.4		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Phenol	ND		12.5	ug/L		02/07/13 15:17	02/08/13 14:30	1
Pyrene	ND		2.50	ug/L		02/07/13 15:17	02/08/13 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		10 - 120			02/07/13 15:17	02/08/13 14:30	1
2-Fluorobiphenyl (Surr)	59		29 - 120			02/07/13 15:17	02/08/13 14:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5S

Lab Sample ID: 490-18806-9

Date Collected: 02/04/13 13:25

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	29		10 - 120	02/07/13 15:17	02/08/13 14:30	1
Nitrobenzene-d5 (Surr)	59		27 - 120	02/07/13 15:17	02/08/13 14:30	1
Phenol-d5 (Surr)	39		10 - 120	02/07/13 15:17	02/08/13 14:30	1
Terphenyl-d14 (Surr)	59		13 - 120	02/07/13 15:17	02/08/13 14:30	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			02/08/13 20:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150		02/08/13 20:52	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3220		118	ug/L		02/07/13 12:07	02/07/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	89		50 - 150	02/07/13 12:07	02/07/13 19:47	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	36200		500	mg/L			02/15/13 08:52	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0390		0.0200	mg/L		02/08/13 08:18	02/11/13 12:51	2
Chromium	3.52		0.0100	mg/L		02/08/13 08:18	02/11/13 12:51	2
Cobalt	0.0940		0.0400	mg/L		02/08/13 08:18	02/11/13 12:51	2
Copper	0.0696		0.0200	mg/L		02/08/13 08:18	02/11/13 12:51	2
Iron	ND		0.200	mg/L		02/08/13 08:18	02/11/13 12:51	2
Lead	ND		0.0100	mg/L		02/08/13 08:18	02/11/13 12:51	2
Manganese	1.66		0.0300	mg/L		02/08/13 08:18	02/11/13 12:51	2
Nickel	0.181		0.0200	mg/L		02/08/13 08:18	02/11/13 12:51	2
Selenium	0.182		0.0200	mg/L		02/08/13 08:18	02/11/13 12:51	2
Thallium	ND		0.0100	mg/L		02/08/13 08:18	02/11/13 12:51	2
Vanadium	0.942		0.0400	mg/L		02/08/13 08:18	02/11/13 12:51	2

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-18806-10

Date Collected: 02/04/13 13:30

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 16:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 16:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 16:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 16:03	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 16:03	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 16:03	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 16:03	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 16:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 16:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 16:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 16:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 16:03	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 16:03	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 16:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 16:03	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 16:03	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 16:03	1
2-Hexanone	ND		10.0	ug/L			02/07/13 16:03	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 16:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 16:03	1
Acetone	ND		50.0	ug/L			02/07/13 16:03	1
Benzene	ND		1.00	ug/L			02/07/13 16:03	1
Bromobenzene	ND		1.00	ug/L			02/07/13 16:03	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 16:03	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 16:03	1
Bromoform	ND		1.00	ug/L			02/07/13 16:03	1
Bromomethane	ND		1.00	ug/L			02/07/13 16:03	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 16:03	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 16:03	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 16:03	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 16:03	1
Chloroethane	ND		1.00	ug/L			02/07/13 16:03	1
Chloroform	ND		1.00	ug/L			02/07/13 16:03	1
Chloromethane	ND		1.00	ug/L			02/07/13 16:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 16:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 16:03	1
Dibromomethane	ND		1.00	ug/L			02/07/13 16:03	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 16:03	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 16:03	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 16:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-18806-10

Date Collected: 02/04/13 13:30

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 16:03	1
Naphthalene	ND		5.00	ug/L			02/07/13 16:03	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 16:03	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
Styrene	ND		1.00	ug/L			02/07/13 16:03	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 16:03	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 16:03	1
Toluene	ND		1.00	ug/L			02/07/13 16:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 16:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 16:03	1
Trichloroethene	ND		1.00	ug/L			02/07/13 16:03	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 16:03	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 16:03	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/07/13 16:03	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/07/13 16:03	1
Dibromofluoromethane (Surr)	101		70 - 130		02/07/13 16:03	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 16:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 13:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/08/13 13:48	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 13:48	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/08/13 13:48	1
1,1-Dichloroethane	ND		1.00	ug/L			02/08/13 13:48	1
Diisopropyl ether	ND		2.00	ug/L			02/08/13 13:48	1
1,1-Dichloroethene	ND		1.00	ug/L			02/08/13 13:48	1
1,1-Dichloropropene	ND		1.00	ug/L			02/08/13 13:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/08/13 13:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/08/13 13:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/08/13 13:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,2-Dichloroethane	ND		1.00	ug/L			02/08/13 13:48	1
1,2-Dichloropropane	ND		1.00	ug/L			02/08/13 13:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
1,3-Dichloropropane	ND		1.00	ug/L			02/08/13 13:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
2,2-Dichloropropane	ND		1.00	ug/L			02/08/13 13:48	1
2-Butanone (MEK)	ND		50.0	ug/L			02/08/13 13:48	1
2-Chlorotoluene	ND		1.00	ug/L			02/08/13 13:48	1
2-Hexanone	ND		10.0	ug/L			02/08/13 13:48	1
4-Chlorotoluene	ND		1.00	ug/L			02/08/13 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/08/13 13:48	1
Acetone	91.3		50.0	ug/L			02/08/13 13:48	1
Benzene	ND		1.00	ug/L			02/08/13 13:48	1
Bromobenzene	ND		1.00	ug/L			02/08/13 13:48	1
Bromochloromethane	ND		1.00	ug/L			02/08/13 13:48	1
Bromodichloromethane	ND		1.00	ug/L			02/08/13 13:48	1
Bromoform	ND		1.00	ug/L			02/08/13 13:48	1
Bromomethane	7.20		1.00	ug/L			02/08/13 13:48	1
Carbon disulfide	ND		1.00	ug/L			02/08/13 13:48	1
Carbon tetrachloride	ND		1.00	ug/L			02/08/13 13:48	1
Chlorobenzene	ND		1.00	ug/L			02/08/13 13:48	1
Chlorodibromomethane	ND		1.00	ug/L			02/08/13 13:48	1
Chloroethane	ND		1.00	ug/L			02/08/13 13:48	1
Chloroform	ND		1.00	ug/L			02/08/13 13:48	1
Chloromethane	11.7		1.00	ug/L			02/08/13 13:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 13:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 13:48	1
Dibromomethane	ND		1.00	ug/L			02/08/13 13:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/08/13 13:48	1
Ethylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
Hexachlorobutadiene	ND		2.00	ug/L			02/08/13 13:48	1
Isopropylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/08/13 13:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/08/13 13:48	1
Naphthalene	ND		5.00	ug/L			02/08/13 13:48	1
n-Butylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
N-Propylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
p-Isopropyltoluene	ND		1.00	ug/L			02/08/13 13:48	1
sec-Butylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
Styrene	ND		1.00	ug/L			02/08/13 13:48	1
tert-Butylbenzene	ND		1.00	ug/L			02/08/13 13:48	1
Tetrachloroethene	ND		1.00	ug/L			02/08/13 13:48	1
Toluene	ND		1.00	ug/L			02/08/13 13:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 13:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 13:48	1
Trichloroethene	ND		1.00	ug/L			02/08/13 13:48	1
Trichlorofluoromethane	ND		1.00	ug/L			02/08/13 13:48	1
Vinyl chloride	ND		1.00	ug/L			02/08/13 13:48	1
Xylenes, Total	ND		3.00	ug/L			02/08/13 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 130		02/08/13 13:48	1
4-Bromofluorobenzene (Surr)	103		70 - 130		02/08/13 13:48	1
Dibromofluoromethane (Surr)	102		70 - 130		02/08/13 13:48	1
Toluene-d8 (Surr)	97		70 - 130		02/08/13 13:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
1,2-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
1,3-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
1,4-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
1-Methylnaphthalene	18.9		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4,5-Trichlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4-Dichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4-Dimethylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4-Dinitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,4-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2,6-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Chloronaphthalene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Chlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Methylnaphthalene	4.14		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
2-Nitrophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
3 & 4 Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
3-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
4-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
4-Nitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
Acenaphthylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Acenaphthene	2.42		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Benzo[a]anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Benzo[a]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Benzo[b]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Benzo[k]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Butyl benzyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Carbazole	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Chrysene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Cresols	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Dibenzofuran	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Diethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Dimethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Di-n-butyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Di-n-octyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Fluorene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Hexachlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Hexachlorobutadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Hexachloroethane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Isophorone	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Naphthalene	30.5		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Nitrobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Pentachlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 14:51	1
Phenanthrene	5.90		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
Phenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 14:51	1
Pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 14:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	77		10 - 120			02/07/13 15:17	02/08/13 14:51	1
<i>2-Fluorobiphenyl (Surr)</i>	61		29 - 120			02/07/13 15:17	02/08/13 14:51	1
<i>2-Fluorophenol (Surr)</i>	41		10 - 120			02/07/13 15:17	02/08/13 14:51	1
<i>Nitrobenzene-d5 (Surr)</i>	59		27 - 120			02/07/13 15:17	02/08/13 14:51	1
<i>Phenol-d5 (Surr)</i>	29		10 - 120			02/07/13 15:17	02/08/13 14:51	1
<i>Terphenyl-d14 (Surr)</i>	84		13 - 120			02/07/13 15:17	02/08/13 14:51	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 19:21	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	94		50 - 150				02/08/13 19:21	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	462		111	ug/L		02/07/13 12:07	02/07/13 20:03	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	91		50 - 150			02/07/13 12:07	02/07/13 20:03	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2370		50.0	mg/L			02/15/13 09:12	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0123		0.0100	mg/L		02/08/13 08:18	02/08/13 15:42	1
Chromium	0.433		0.00500	mg/L		02/08/13 08:18	02/08/13 15:42	1
Cobalt	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 15:42	1
Copper	0.0101		0.0100	mg/L		02/08/13 08:18	02/08/13 15:42	1
Iron	ND		0.100	mg/L		02/08/13 08:18	02/08/13 15:42	1
Lead	0.0148		0.00500	mg/L		02/08/13 08:18	02/08/13 15:42	1
Manganese	ND		0.0150	mg/L		02/08/13 08:18	02/08/13 15:42	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 15:42	1
Selenium	0.0161		0.0100	mg/L		02/08/13 08:18	02/08/13 15:42	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 15:42	1
Vanadium	0.425		0.0200	mg/L		02/08/13 08:18	02/08/13 15:42	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10E

Lab Sample ID: 490-18806-12

Date Collected: 02/04/13 14:40

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 20:20	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 20:20	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 20:20	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 20:20	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 20:20	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 20:20	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 20:20	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 20:20	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 20:20	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 20:20	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 20:20	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 20:20	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 20:20	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 20:20	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 20:20	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 20:20	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 20:20	1
2-Hexanone	ND		10.0	ug/L			02/07/13 20:20	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 20:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 20:20	1
Acetone	ND		50.0	ug/L			02/07/13 20:20	1
Benzene	ND		1.00	ug/L			02/07/13 20:20	1
Bromobenzene	ND		1.00	ug/L			02/07/13 20:20	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 20:20	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 20:20	1
Bromoform	ND		1.00	ug/L			02/07/13 20:20	1
Bromomethane	3.65		1.00	ug/L			02/07/13 20:20	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 20:20	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 20:20	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 20:20	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 20:20	1
Chloroethane	ND		1.00	ug/L			02/07/13 20:20	1
Chloroform	ND		1.00	ug/L			02/07/13 20:20	1
Chloromethane	ND		1.00	ug/L			02/07/13 20:20	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 20:20	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 20:20	1
Dibromomethane	ND		1.00	ug/L			02/07/13 20:20	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 20:20	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 20:20	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 20:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10E

Lab Sample ID: 490-18806-12

Date Collected: 02/04/13 14:40

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			02/07/13 20:20	1
Naphthalene	ND		5.00	ug/L			02/07/13 20:20	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 20:20	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
Styrene	ND		1.00	ug/L			02/07/13 20:20	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 20:20	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 20:20	1
Toluene	ND		1.00	ug/L			02/07/13 20:20	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 20:20	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 20:20	1
Trichloroethene	ND		1.00	ug/L			02/07/13 20:20	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 20:20	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 20:20	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		02/07/13 20:20	1
4-Bromofluorobenzene (Surr)	107		70 - 130		02/07/13 20:20	1
Dibromofluoromethane (Surr)	101		70 - 130		02/07/13 20:20	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 20:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
1,2-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
1,3-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
1,4-Dichlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
1-Methylnaphthalene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4,5-Trichlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4-Dichlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4-Dimethylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4-Dinitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,4-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2,6-Dinitrotoluene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Chloronaphthalene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Chlorophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Methylnaphthalene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
2-Nitrophenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
3 & 4 Methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
3-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10E

Lab Sample ID: 490-18806-12

Date Collected: 02/04/13 14:40

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
4-Nitroaniline	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
4-Nitrophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
Acenaphthylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Acenaphthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Benzo[a]anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Benzo[a]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Benzo[b]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Benzo[k]fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Butyl benzyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Carbazole	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Chrysene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Cresols	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Dibenzofuran	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Diethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Dimethyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Di-n-butyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Di-n-octyl phthalate	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Fluoranthene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Fluorene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Hexachlorobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Hexachlorobutadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Hexachloroethane	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Isophorone	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Naphthalene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Nitrobenzene	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Pentachlorophenol	ND		29.4	ug/L		02/07/13 15:17	02/08/13 15:13	1
Phenanthrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Phenol	ND		11.8	ug/L		02/07/13 15:17	02/08/13 15:13	1
Pyrene	ND		2.35	ug/L		02/07/13 15:17	02/08/13 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 120			02/07/13 15:17	02/08/13 15:13	1
2-Fluorobiphenyl (Surr)	58		29 - 120			02/07/13 15:17	02/08/13 15:13	1
2-Fluorophenol (Surr)	39		10 - 120			02/07/13 15:17	02/08/13 15:13	1
Nitrobenzene-d5 (Surr)	54		27 - 120			02/07/13 15:17	02/08/13 15:13	1
Phenol-d5 (Surr)	26		10 - 120			02/07/13 15:17	02/08/13 15:13	1
Terphenyl-d14 (Surr)	76		13 - 120			02/07/13 15:17	02/08/13 15:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10E

Lab Sample ID: 490-18806-12

Date Collected: 02/04/13 14:40

Matrix: Water

Date Received: 02/06/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 19:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	95		50 - 150				02/08/13 19:51	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	197		111	ug/L		02/07/13 12:07	02/07/13 20:19	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	78		50 - 150			02/07/13 12:07	02/07/13 20:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	82.0		10.0	mg/L			02/13/13 23:06	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:35	1
Chromium	0.0245		0.00500	mg/L		02/08/13 08:18	02/08/13 16:35	1
Cobalt	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 16:35	1
Copper	0.0104		0.0100	mg/L		02/08/13 08:18	02/08/13 16:35	1
Iron	2.32		0.100	mg/L		02/08/13 08:18	02/08/13 16:35	1
Lead	0.0208		0.00500	mg/L		02/08/13 08:18	02/08/13 16:35	1
Manganese	0.714		0.0150	mg/L		02/08/13 08:18	02/08/13 16:35	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:35	1
Selenium	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 16:35	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 16:35	1
Vanadium	0.0318		0.0200	mg/L		02/08/13 08:18	02/08/13 16:35	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-56494/7

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 11:46	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/07/13 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/07/13 11:46	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/07/13 11:46	1
1,1-Dichloroethane	ND		1.00	ug/L			02/07/13 11:46	1
Diisopropyl ether	ND		2.00	ug/L			02/07/13 11:46	1
1,1-Dichloroethene	ND		1.00	ug/L			02/07/13 11:46	1
1,1-Dichloropropene	ND		1.00	ug/L			02/07/13 11:46	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,2,3-Trichloropropane	ND		1.00	ug/L			02/07/13 11:46	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/07/13 11:46	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/07/13 11:46	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,2-Dichloroethane	ND		1.00	ug/L			02/07/13 11:46	1
1,2-Dichloropropane	ND		1.00	ug/L			02/07/13 11:46	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
1,3-Dichloropropane	ND		1.00	ug/L			02/07/13 11:46	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
2,2-Dichloropropane	ND		1.00	ug/L			02/07/13 11:46	1
2-Butanone (MEK)	ND		50.0	ug/L			02/07/13 11:46	1
2-Chlorotoluene	ND		1.00	ug/L			02/07/13 11:46	1
2-Hexanone	ND		10.0	ug/L			02/07/13 11:46	1
4-Chlorotoluene	ND		1.00	ug/L			02/07/13 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/07/13 11:46	1
Acetone	ND		50.0	ug/L			02/07/13 11:46	1
Benzene	ND		1.00	ug/L			02/07/13 11:46	1
Bromobenzene	ND		1.00	ug/L			02/07/13 11:46	1
Bromochloromethane	ND		1.00	ug/L			02/07/13 11:46	1
Bromodichloromethane	ND		1.00	ug/L			02/07/13 11:46	1
Bromoform	ND		1.00	ug/L			02/07/13 11:46	1
Bromomethane	ND		1.00	ug/L			02/07/13 11:46	1
Carbon disulfide	ND		1.00	ug/L			02/07/13 11:46	1
Carbon tetrachloride	ND		1.00	ug/L			02/07/13 11:46	1
Chlorobenzene	ND		1.00	ug/L			02/07/13 11:46	1
Chlorodibromomethane	ND		1.00	ug/L			02/07/13 11:46	1
Chloroethane	ND		1.00	ug/L			02/07/13 11:46	1
Chloroform	ND		1.00	ug/L			02/07/13 11:46	1
Chloromethane	ND		1.00	ug/L			02/07/13 11:46	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 11:46	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 11:46	1
Dibromomethane	ND		1.00	ug/L			02/07/13 11:46	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/07/13 11:46	1
Ethylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
Hexachlorobutadiene	ND		2.00	ug/L			02/07/13 11:46	1
Isopropylbenzene	ND		1.00	ug/L			02/07/13 11:46	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-56494/7

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			02/07/13 11:46	1
Methylene Chloride	ND		5.00	ug/L			02/07/13 11:46	1
Naphthalene	ND		5.00	ug/L			02/07/13 11:46	1
n-Butylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
N-Propylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
p-Isopropyltoluene	ND		1.00	ug/L			02/07/13 11:46	1
sec-Butylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
Styrene	ND		1.00	ug/L			02/07/13 11:46	1
tert-Butylbenzene	ND		1.00	ug/L			02/07/13 11:46	1
Tetrachloroethene	ND		1.00	ug/L			02/07/13 11:46	1
Toluene	ND		1.00	ug/L			02/07/13 11:46	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/07/13 11:46	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/07/13 11:46	1
Trichloroethene	ND		1.00	ug/L			02/07/13 11:46	1
Trichlorofluoromethane	ND		1.00	ug/L			02/07/13 11:46	1
Vinyl chloride	ND		1.00	ug/L			02/07/13 11:46	1
Xylenes, Total	ND		3.00	ug/L			02/07/13 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		02/07/13 11:46	1
4-Bromofluorobenzene (Surr)	107		70 - 130		02/07/13 11:46	1
Dibromofluoromethane (Surr)	102		70 - 130		02/07/13 11:46	1
Toluene-d8 (Surr)	98		70 - 130		02/07/13 11:46	1

Lab Sample ID: LCS 490-56494/3

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.99		ug/L		106	74 - 135
1,1,1-Trichloroethane	50.0	53.79		ug/L		108	78 - 135
1,1,2,2-Tetrachloroethane	50.0	56.27		ug/L		113	69 - 131
1,1,2-Trichloroethane	50.0	52.54		ug/L		105	80 - 124
1,1-Dichloroethane	50.0	54.32		ug/L		109	78 - 125
Diisopropyl ether	50.0	54.81		ug/L		110	61 - 142
1,1-Dichloroethene	50.0	60.05		ug/L		120	79 - 124
1,1-Dichloropropene	50.0	51.36		ug/L		103	80 - 122
1,2,3-Trichlorobenzene	50.0	48.69		ug/L		97	62 - 133
1,2,3-Trichloropropane	50.0	57.72		ug/L		115	70 - 131
1,2,4-Trichlorobenzene	50.0	47.16		ug/L		94	63 - 133
1,2,4-Trimethylbenzene	50.0	48.29		ug/L		97	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	57.94		ug/L		116	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.27		ug/L		113	80 - 129
1,2-Dichlorobenzene	50.0	49.88		ug/L		100	80 - 121
1,2-Dichloroethane	50.0	58.64		ug/L		117	77 - 121
1,2-Dichloropropane	50.0	48.98		ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	48.40		ug/L		97	77 - 127
1,3-Dichlorobenzene	50.0	48.58		ug/L		97	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-56494/3

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	53.87		ug/L		108	80 - 125
1,4-Dichlorobenzene	50.0	49.26		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	53.96		ug/L		108	43 - 161
2-Butanone (MEK)	250	308.2		ug/L		123	62 - 133
2-Chlorotoluene	50.0	49.54		ug/L		99	75 - 126
2-Hexanone	250	329.1		ug/L		132	60 - 142
4-Chlorotoluene	50.0	50.51		ug/L		101	75 - 130
4-Methyl-2-pentanone (MIBK)	250	320.7		ug/L		128	60 - 137
Acetone	250	340.3		ug/L		136	54 - 145
Benzene	50.0	50.46		ug/L		101	80 - 121
Bromobenzene	50.0	51.50		ug/L		103	68 - 130
Bromochloromethane	50.0	50.20		ug/L		100	78 - 129
Bromodichloromethane	50.0	58.78		ug/L		118	75 - 129
Bromoform	50.0	61.37		ug/L		123	46 - 145
Bromomethane	50.0	31.15		ug/L		62	41 - 150
Carbon disulfide	50.0	48.24		ug/L		96	77 - 126
Carbon tetrachloride	50.0	54.11		ug/L		108	64 - 147
Chlorobenzene	50.0	50.88		ug/L		102	80 - 120
Chlorodibromomethane	50.0	57.45		ug/L		115	69 - 133
Chloroethane	50.0	53.12		ug/L		106	72 - 120
Chloroform	50.0	53.49		ug/L		107	73 - 129
Chloromethane	50.0	44.75		ug/L		89	12 - 150
cis-1,2-Dichloroethene	50.0	51.59		ug/L		103	76 - 125
cis-1,3-Dichloropropene	50.0	55.72		ug/L		111	74 - 140
Dibromomethane	50.0	57.01		ug/L		114	71 - 125
Dichlorodifluoromethane	50.0	50.37		ug/L		101	37 - 127
Ethylbenzene	50.0	51.10		ug/L		102	80 - 130
Hexachlorobutadiene	50.0	39.21		ug/L		78	49 - 146
Isopropylbenzene	50.0	50.39		ug/L		101	80 - 141
Methyl tert-butyl ether	50.0	61.50		ug/L		123	72 - 133
Methylene Chloride	50.0	53.75		ug/L		108	79 - 123
Naphthalene	50.0	58.03		ug/L		116	62 - 138
n-Butylbenzene	50.0	46.20		ug/L		92	68 - 132
N-Propylbenzene	50.0	48.79		ug/L		98	75 - 129
p-Isopropyltoluene	50.0	46.34		ug/L		93	75 - 128
sec-Butylbenzene	50.0	46.21		ug/L		92	76 - 128
Styrene	50.0	55.39		ug/L		111	80 - 127
tert-Butylbenzene	50.0	46.82		ug/L		94	76 - 126
Tetrachloroethene	50.0	48.03		ug/L		96	80 - 126
Toluene	50.0	49.61		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	55.17		ug/L		110	79 - 126
trans-1,3-Dichloropropene	50.0	57.94		ug/L		116	63 - 134
Trichloroethene	50.0	49.63		ug/L		99	80 - 123
Trichlorofluoromethane	50.0	52.57		ug/L		105	65 - 124
Vinyl chloride	50.0	50.73		ug/L		101	68 - 120
Xylenes, Total	150	157.9		ug/L		105	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-56494/3

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	117		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-56494/4

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.16		ug/L		102	74 - 135	4	16
1,1,1-Trichloroethane	50.0	52.14		ug/L		104	78 - 135	3	17
1,1,2,2-Tetrachloroethane	50.0	57.70		ug/L		115	69 - 131	3	20
1,1,2-Trichloroethane	50.0	51.51		ug/L		103	80 - 124	2	15
1,1-Dichloroethane	50.0	52.19		ug/L		104	78 - 125	4	17
Diisopropyl ether	50.0	54.14		ug/L		108	61 - 142	1	50
1,1-Dichloroethene	50.0	57.02		ug/L		114	79 - 124	5	17
1,1-Dichloropropene	50.0	49.80		ug/L		100	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	49.65		ug/L		99	62 - 133	2	25
1,2,3-Trichloropropane	50.0	57.29		ug/L		115	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	47.80		ug/L		96	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	47.81		ug/L		96	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	57.29		ug/L		115	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	55.64		ug/L		111	80 - 129	1	15
1,2-Dichlorobenzene	50.0	49.35		ug/L		99	80 - 121	1	15
1,2-Dichloroethane	50.0	57.63		ug/L		115	77 - 121	2	17
1,2-Dichloropropane	50.0	47.69		ug/L		95	75 - 120	3	17
1,3,5-Trimethylbenzene	50.0	47.48		ug/L		95	77 - 127	2	17
1,3-Dichlorobenzene	50.0	48.06		ug/L		96	80 - 122	1	15
1,3-Dichloropropane	50.0	53.72		ug/L		107	80 - 125	0	14
1,4-Dichlorobenzene	50.0	49.19		ug/L		98	80 - 120	0	15
2,2-Dichloropropane	50.0	52.30		ug/L		105	43 - 161	3	18
2-Butanone (MEK)	250	308.1		ug/L		123	62 - 133	0	19
2-Chlorotoluene	50.0	49.11		ug/L		98	75 - 126	1	17
2-Hexanone	250	330.1		ug/L		132	60 - 142	0	15
4-Chlorotoluene	50.0	49.67		ug/L		99	75 - 130	2	18
4-Methyl-2-pentanone (MIBK)	250	321.2		ug/L		128	60 - 137	0	17
Acetone	250	327.8		ug/L		131	54 - 145	4	21
Benzene	50.0	49.17		ug/L		98	80 - 121	3	17
Bromobenzene	50.0	51.52		ug/L		103	68 - 130	0	20
Bromochloromethane	50.0	49.01		ug/L		98	78 - 129	2	17
Bromodichloromethane	50.0	57.77		ug/L		116	75 - 129	2	18
Bromoform	50.0	60.20		ug/L		120	46 - 145	2	16
Bromomethane	50.0	31.05		ug/L		62	41 - 150	0	50
Carbon disulfide	50.0	46.64		ug/L		93	77 - 126	3	21
Carbon tetrachloride	50.0	52.68		ug/L		105	64 - 147	3	19
Chlorobenzene	50.0	49.21		ug/L		98	80 - 120	3	14
Chlorodibromomethane	50.0	57.02		ug/L		114	69 - 133	1	15

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-56494/4

Matrix: Water

Analysis Batch: 56494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	51.80		ug/L		104	72 - 120	3	20	
Chloroform	50.0	52.79		ug/L		106	73 - 129	1	18	
Chloromethane	50.0	42.07		ug/L		84	12 - 150	6	31	
cis-1,2-Dichloroethene	50.0	50.50		ug/L		101	76 - 125	2	17	
cis-1,3-Dichloropropene	50.0	54.56		ug/L		109	74 - 140	2	15	
Dibromomethane	50.0	56.38		ug/L		113	71 - 125	1	16	
Dichlorodifluoromethane	50.0	47.87		ug/L		96	37 - 127	5	18	
Ethylbenzene	50.0	49.74		ug/L		99	80 - 130	3	15	
Hexachlorobutadiene	50.0	38.72		ug/L		77	49 - 146	1	23	
Isopropylbenzene	50.0	48.41		ug/L		97	80 - 141	4	16	
Methyl tert-butyl ether	50.0	61.14		ug/L		122	72 - 133	1	16	
Methylene Chloride	50.0	52.77		ug/L		106	79 - 123	2	17	
Naphthalene	50.0	58.72		ug/L		117	62 - 138	1	26	
n-Butylbenzene	50.0	45.18		ug/L		90	68 - 132	2	18	
N-Propylbenzene	50.0	48.01		ug/L		96	75 - 129	2	17	
p-Isopropyltoluene	50.0	45.22		ug/L		90	75 - 128	2	16	
sec-Butylbenzene	50.0	45.68		ug/L		91	76 - 128	1	16	
Styrene	50.0	53.10		ug/L		106	80 - 127	4	24	
tert-Butylbenzene	50.0	46.10		ug/L		92	76 - 126	2	16	
Tetrachloroethene	50.0	45.89		ug/L		92	80 - 126	5	16	
Toluene	50.0	48.43		ug/L		97	80 - 126	2	15	
trans-1,2-Dichloroethene	50.0	53.26		ug/L		107	79 - 126	4	16	
trans-1,3-Dichloropropene	50.0	56.97		ug/L		114	63 - 134	2	14	
Trichloroethene	50.0	48.00		ug/L		96	80 - 123	3	17	
Trichlorofluoromethane	50.0	50.83		ug/L		102	65 - 124	3	18	
Vinyl chloride	50.0	48.60		ug/L		97	68 - 120	4	17	
Xylenes, Total	150	151.4		ug/L		101	80 - 132	4	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-57129/7

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 12:51	1
1,1,1-Trichloroethane	ND		1.00	ug/L			02/08/13 12:51	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			02/08/13 12:51	1
1,1,2-Trichloroethane	ND		1.00	ug/L			02/08/13 12:51	1
1,1-Dichloroethane	ND		1.00	ug/L			02/08/13 12:51	1
Diisopropyl ether	ND		2.00	ug/L			02/08/13 12:51	1
1,1-Dichloroethene	ND		1.00	ug/L			02/08/13 12:51	1
1,1-Dichloropropene	ND		1.00	ug/L			02/08/13 12:51	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-57129/7

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,3-Trichloropropane	ND		1.00	ug/L			02/08/13 12:51	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			02/08/13 12:51	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			02/08/13 12:51	1
1,2-Dichlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1
1,2-Dichloroethane	ND		1.00	ug/L			02/08/13 12:51	1
1,2-Dichloropropane	ND		1.00	ug/L			02/08/13 12:51	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
1,3-Dichlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1
1,3-Dichloropropane	ND		1.00	ug/L			02/08/13 12:51	1
1,4-Dichlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1
2,2-Dichloropropane	ND		1.00	ug/L			02/08/13 12:51	1
2-Butanone (MEK)	ND		50.0	ug/L			02/08/13 12:51	1
2-Chlorotoluene	ND		1.00	ug/L			02/08/13 12:51	1
2-Hexanone	ND		10.0	ug/L			02/08/13 12:51	1
4-Chlorotoluene	ND		1.00	ug/L			02/08/13 12:51	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			02/08/13 12:51	1
Acetone	ND		50.0	ug/L			02/08/13 12:51	1
Benzene	ND		1.00	ug/L			02/08/13 12:51	1
Bromobenzene	ND		1.00	ug/L			02/08/13 12:51	1
Bromochloromethane	ND		1.00	ug/L			02/08/13 12:51	1
Bromodichloromethane	ND		1.00	ug/L			02/08/13 12:51	1
Bromoform	ND		1.00	ug/L			02/08/13 12:51	1
Bromomethane	ND		1.00	ug/L			02/08/13 12:51	1
Carbon disulfide	ND		1.00	ug/L			02/08/13 12:51	1
Carbon tetrachloride	ND		1.00	ug/L			02/08/13 12:51	1
Chlorobenzene	ND		1.00	ug/L			02/08/13 12:51	1
Chlorodibromomethane	ND		1.00	ug/L			02/08/13 12:51	1
Chloroethane	ND		1.00	ug/L			02/08/13 12:51	1
Chloroform	ND		1.00	ug/L			02/08/13 12:51	1
Chloromethane	ND		1.00	ug/L			02/08/13 12:51	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 12:51	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 12:51	1
Dibromomethane	ND		1.00	ug/L			02/08/13 12:51	1
Dichlorodifluoromethane	ND		1.00	ug/L			02/08/13 12:51	1
Ethylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
Hexachlorobutadiene	ND		2.00	ug/L			02/08/13 12:51	1
Isopropylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
Methyl tert-butyl ether	ND		1.00	ug/L			02/08/13 12:51	1
Methylene Chloride	ND		5.00	ug/L			02/08/13 12:51	1
Naphthalene	ND		5.00	ug/L			02/08/13 12:51	1
n-Butylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
N-Propylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
p-Isopropyltoluene	ND		1.00	ug/L			02/08/13 12:51	1
sec-Butylbenzene	ND		1.00	ug/L			02/08/13 12:51	1
Styrene	ND		1.00	ug/L			02/08/13 12:51	1
tert-Butylbenzene	ND		1.00	ug/L			02/08/13 12:51	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-57129/7

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			02/08/13 12:51	1
Toluene	ND		1.00	ug/L			02/08/13 12:51	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			02/08/13 12:51	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			02/08/13 12:51	1
Trichloroethene	ND		1.00	ug/L			02/08/13 12:51	1
Trichlorofluoromethane	ND		1.00	ug/L			02/08/13 12:51	1
Vinyl chloride	ND		1.00	ug/L			02/08/13 12:51	1
Xylenes, Total	ND		3.00	ug/L			02/08/13 12:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		02/08/13 12:51	1
4-Bromofluorobenzene (Surr)	106		70 - 130		02/08/13 12:51	1
Dibromofluoromethane (Surr)	101		70 - 130		02/08/13 12:51	1
Toluene-d8 (Surr)	98		70 - 130		02/08/13 12:51	1

Lab Sample ID: LCS 490-57129/3

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.52		ug/L		105	74 - 135
1,1,1-Trichloroethane	50.0	55.07		ug/L		110	78 - 135
1,1,1,2,2-Tetrachloroethane	50.0	56.32		ug/L		113	69 - 131
1,1,2-Trichloroethane	50.0	51.77		ug/L		104	80 - 124
1,1-Dichloroethane	50.0	54.66		ug/L		109	78 - 125
Diisopropyl ether	50.0	56.20		ug/L		112	61 - 142
1,1-Dichloroethene	50.0	60.76		ug/L		122	79 - 124
1,1-Dichloropropene	50.0	51.97		ug/L		104	80 - 122
1,2,3-Trichlorobenzene	50.0	48.47		ug/L		97	62 - 133
1,2,3-Trichloropropane	50.0	56.51		ug/L		113	70 - 131
1,2,4-Trichlorobenzene	50.0	46.50		ug/L		93	63 - 133
1,2,4-Trimethylbenzene	50.0	48.38		ug/L		97	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	54.17		ug/L		108	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.68		ug/L		109	80 - 129
1,2-Dichlorobenzene	50.0	49.49		ug/L		99	80 - 121
1,2-Dichloroethane	50.0	59.35		ug/L		119	77 - 121
1,2-Dichloropropane	50.0	48.65		ug/L		97	75 - 120
1,3,5-Trimethylbenzene	50.0	48.12		ug/L		96	77 - 127
1,3-Dichlorobenzene	50.0	49.09		ug/L		98	80 - 122
1,3-Dichloropropane	50.0	53.56		ug/L		107	80 - 125
1,4-Dichlorobenzene	50.0	49.12		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	56.07		ug/L		112	43 - 161
2-Butanone (MEK)	250	304.9		ug/L		122	62 - 133
2-Chlorotoluene	50.0	49.78		ug/L		100	75 - 126
2-Hexanone	250	320.1		ug/L		128	60 - 142
4-Chlorotoluene	50.0	50.51		ug/L		101	75 - 130
4-Methyl-2-pentanone (MIBK)	250	308.0		ug/L		123	60 - 137
Acetone	250	329.0		ug/L		132	54 - 145

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-57129/3

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.35		ug/L		103	80 - 121
Bromobenzene	50.0	50.76		ug/L		102	68 - 130
Bromochloromethane	50.0	49.13		ug/L		98	78 - 129
Bromodichloromethane	50.0	58.54		ug/L		117	75 - 129
Bromoform	50.0	59.39		ug/L		119	46 - 145
Bromomethane	50.0	51.51		ug/L		103	41 - 150
Carbon disulfide	50.0	49.11		ug/L		98	77 - 126
Carbon tetrachloride	50.0	55.24		ug/L		110	64 - 147
Chlorobenzene	50.0	50.59		ug/L		101	80 - 120
Chlorodibromomethane	50.0	56.35		ug/L		113	69 - 133
Chloroethane	50.0	53.56		ug/L		107	72 - 120
Chloroform	50.0	54.87		ug/L		110	73 - 129
Chloromethane	50.0	42.40		ug/L		85	12 - 150
cis-1,2-Dichloroethene	50.0	52.46		ug/L		105	76 - 125
cis-1,3-Dichloropropene	50.0	55.48		ug/L		111	74 - 140
Dibromomethane	50.0	57.16		ug/L		114	71 - 125
Dichlorodifluoromethane	50.0	45.02		ug/L		90	37 - 127
Ethylbenzene	50.0	51.42		ug/L		103	80 - 130
Hexachlorobutadiene	50.0	39.18		ug/L		78	49 - 146
Isopropylbenzene	50.0	50.56		ug/L		101	80 - 141
Methyl tert-butyl ether	50.0	60.28		ug/L		121	72 - 133
Methylene Chloride	50.0	54.66		ug/L		109	79 - 123
Naphthalene	50.0	55.89		ug/L		112	62 - 138
n-Butylbenzene	50.0	46.70		ug/L		93	68 - 132
N-Propylbenzene	50.0	49.20		ug/L		98	75 - 129
p-Isopropyltoluene	50.0	45.84		ug/L		92	75 - 128
sec-Butylbenzene	50.0	47.18		ug/L		94	76 - 128
Styrene	50.0	55.33		ug/L		111	80 - 127
tert-Butylbenzene	50.0	46.94		ug/L		94	76 - 126
Tetrachloroethene	50.0	47.44		ug/L		95	80 - 126
Toluene	50.0	49.65		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	56.19		ug/L		112	79 - 126
trans-1,3-Dichloropropene	50.0	56.71		ug/L		113	63 - 134
Trichloroethene	50.0	49.34		ug/L		99	80 - 123
Trichlorofluoromethane	50.0	53.32		ug/L		107	65 - 124
Vinyl chloride	50.0	49.08		ug/L		98	68 - 120
Xylenes, Total	150	158.4		ug/L		106	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-57129/4

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.97		ug/L		106	74 - 135	1	16
1,1,1-Trichloroethane	50.0	55.02		ug/L		110	78 - 135	0	17
1,1,2,2-Tetrachloroethane	50.0	56.01		ug/L		112	69 - 131	1	20
1,1,2-Trichloroethane	50.0	51.69		ug/L		103	80 - 124	0	15
1,1-Dichloroethane	50.0	54.93		ug/L		110	78 - 125	0	17
Diisopropyl ether	50.0	55.21		ug/L		110	61 - 142	2	50
1,1-Dichloroethene	50.0	59.87		ug/L		120	79 - 124	1	17
1,1-Dichloropropene	50.0	52.33		ug/L		105	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	47.61		ug/L		95	62 - 133	2	25
1,2,3-Trichloropropane	50.0	55.96		ug/L		112	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	46.59		ug/L		93	63 - 133	0	19
1,2,4-Trimethylbenzene	50.0	48.41		ug/L		97	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	53.77		ug/L		108	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	55.68		ug/L		111	80 - 129	2	15
1,2-Dichlorobenzene	50.0	49.55		ug/L		99	80 - 121	0	15
1,2-Dichloroethane	50.0	58.43		ug/L		117	77 - 121	2	17
1,2-Dichloropropane	50.0	48.34		ug/L		97	75 - 120	1	17
1,3,5-Trimethylbenzene	50.0	48.38		ug/L		97	77 - 127	1	17
1,3-Dichlorobenzene	50.0	49.02		ug/L		98	80 - 122	0	15
1,3-Dichloropropane	50.0	53.44		ug/L		107	80 - 125	0	14
1,4-Dichlorobenzene	50.0	49.86		ug/L		100	80 - 120	1	15
2,2-Dichloropropane	50.0	55.56		ug/L		111	43 - 161	1	18
2-Butanone (MEK)	250	300.2		ug/L		120	62 - 133	2	19
2-Chlorotoluene	50.0	49.96		ug/L		100	75 - 126	0	17
2-Hexanone	250	314.2		ug/L		126	60 - 142	2	15
4-Chlorotoluene	50.0	50.23		ug/L		100	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	310.4		ug/L		124	60 - 137	1	17
Acetone	250	302.9		ug/L		121	54 - 145	8	21
Benzene	50.0	51.20		ug/L		102	80 - 121	0	17
Bromobenzene	50.0	51.34		ug/L		103	68 - 130	1	20
Bromochloromethane	50.0	48.62		ug/L		97	78 - 129	1	17
Bromodichloromethane	50.0	58.80		ug/L		118	75 - 129	0	18
Bromoform	50.0	59.15		ug/L		118	46 - 145	0	16
Bromomethane	50.0	51.45		ug/L		103	41 - 150	0	50
Carbon disulfide	50.0	49.56		ug/L		99	77 - 126	1	21
Carbon tetrachloride	50.0	56.04		ug/L		112	64 - 147	1	19
Chlorobenzene	50.0	51.38		ug/L		103	80 - 120	2	14
Chlorodibromomethane	50.0	56.58		ug/L		113	69 - 133	0	15
Chloroethane	50.0	53.90		ug/L		108	72 - 120	1	20
Chloroform	50.0	54.76		ug/L		110	73 - 129	0	18
Chloromethane	50.0	41.97		ug/L		84	12 - 150	1	31
cis-1,2-Dichloroethene	50.0	52.32		ug/L		105	76 - 125	0	17
cis-1,3-Dichloropropene	50.0	55.59		ug/L		111	74 - 140	0	15
Dibromomethane	50.0	55.88		ug/L		112	71 - 125	2	16
Dichlorodifluoromethane	50.0	45.29		ug/L		91	37 - 127	1	18
Ethylbenzene	50.0	52.58		ug/L		105	80 - 130	2	15
Hexachlorobutadiene	50.0	40.42		ug/L		81	49 - 146	3	23
Isopropylbenzene	50.0	51.68		ug/L		103	80 - 141	2	16

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-57129/4

Matrix: Water

Analysis Batch: 57129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Methyl tert-butyl ether	50.0	59.60		ug/L		119	72 - 133	1	16	
Methylene Chloride	50.0	54.68		ug/L		109	79 - 123	0	17	
Naphthalene	50.0	55.96		ug/L		112	62 - 138	0	26	
n-Butylbenzene	50.0	47.50		ug/L		95	68 - 132	2	18	
N-Propylbenzene	50.0	49.49		ug/L		99	75 - 129	1	17	
p-Isopropyltoluene	50.0	46.11		ug/L		92	75 - 128	1	16	
sec-Butylbenzene	50.0	47.40		ug/L		95	76 - 128	0	16	
Styrene	50.0	55.71		ug/L		111	80 - 127	1	24	
tert-Butylbenzene	50.0	47.27		ug/L		95	76 - 126	1	16	
Tetrachloroethene	50.0	48.06		ug/L		96	80 - 126	1	16	
Toluene	50.0	50.59		ug/L		101	80 - 126	2	15	
trans-1,2-Dichloroethene	50.0	55.96		ug/L		112	79 - 126	0	16	
trans-1,3-Dichloropropene	50.0	57.37		ug/L		115	63 - 134	1	14	
Trichloroethene	50.0	49.58		ug/L		99	80 - 123	0	17	
Trichlorofluoromethane	50.0	53.53		ug/L		107	65 - 124	0	18	
Vinyl chloride	50.0	49.80		ug/L		100	68 - 120	1	17	
Xylenes, Total	150	159.8		ug/L		107	80 - 132	1	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-56992/1-A

Matrix: Water

Analysis Batch: 57185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56992

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
1,2-Dichlorobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
1,3-Dichlorobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
1,4-Dichlorobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
1-Methylnaphthalene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4-Dichlorophenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4-Dimethylphenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4-Dinitrophenol	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,4-Dinitrotoluene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2,6-Dinitrotoluene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2-Chloronaphthalene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2-Chlorophenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2-Methylnaphthalene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
2-Methylphenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
2-Nitroaniline	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-56992/1-A

Matrix: Water

Analysis Batch: 57185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56992

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
2-Nitrophenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
3 & 4 Methylphenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
3-Nitroaniline	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Chloroaniline	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Nitroaniline	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
4-Nitrophenol	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Acenaphthylene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Acenaphthene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Benzo[a]anthracene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Benzo[a]pyrene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Benzo[b]fluoranthene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Benzo[k]fluoranthene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Anthracene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Butyl benzyl phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Carbazole	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Chrysene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Cresols	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Dibenzofuran	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Diethyl phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Dimethyl phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Di-n-butyl phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Di-n-octyl phthalate	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Fluoranthene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Fluorene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Hexachlorobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Hexachlorobutadiene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Hexachloroethane	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Isophorone	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Naphthalene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1
Nitrobenzene	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Pentachlorophenol	ND		25.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Phenanthrene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-56992/1-A

Matrix: Water

Analysis Batch: 57185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56992

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10.0	ug/L		02/07/13 15:17	02/08/13 12:00	1
Pyrene	ND		2.00	ug/L		02/07/13 15:17	02/08/13 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		10 - 120	02/07/13 15:17	02/08/13 12:00	1
2-Fluorobiphenyl (Surr)	59		29 - 120	02/07/13 15:17	02/08/13 12:00	1
2-Fluorophenol (Surr)	38		10 - 120	02/07/13 15:17	02/08/13 12:00	1
Nitrobenzene-d5 (Surr)	60		27 - 120	02/07/13 15:17	02/08/13 12:00	1
Phenol-d5 (Surr)	24		10 - 120	02/07/13 15:17	02/08/13 12:00	1
Terphenyl-d14 (Surr)	79		13 - 120	02/07/13 15:17	02/08/13 12:00	1

Lab Sample ID: LCS 490-56992/2-A

Matrix: Water

Analysis Batch: 57185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	30.24		ug/L		60	30 - 120
1,2-Dichlorobenzene	50.0	34.00		ug/L		68	32 - 120
1,3-Dichlorobenzene	50.0	32.82		ug/L		66	32 - 120
1,4-Dichlorobenzene	50.0	31.67		ug/L		63	31 - 120
1-Methylnaphthalene	50.0	33.24		ug/L		66	36 - 120
2,4,5-Trichlorophenol	50.0	39.47		ug/L		79	40 - 129
2,4,6-Trichlorophenol	50.0	37.32		ug/L		75	39 - 135
2,4-Dichlorophenol	50.0	35.37		ug/L		71	38 - 120
2,4-Dimethylphenol	50.0	36.86		ug/L		74	21 - 126
2,4-Dinitrophenol	50.0	38.43		ug/L		77	20 - 150
2,4-Dinitrotoluene	50.0	40.11		ug/L		80	46 - 132
2,6-Dinitrotoluene	50.0	40.65		ug/L		81	54 - 128
2-Chloronaphthalene	50.0	34.97		ug/L		70	39 - 120
2-Chlorophenol	50.0	35.34		ug/L		71	40 - 120
2-Methylnaphthalene	50.0	33.03		ug/L		66	31 - 120
2-Methylphenol	50.0	32.18		ug/L		64	38 - 120
2-Nitroaniline	50.0	40.65		ug/L		81	46 - 131
2-Nitrophenol	50.0	37.20		ug/L		74	32 - 120
3,3'-Dichlorobenzidine	50.0	37.20		ug/L		74	46 - 129
3 & 4 Methylphenol	50.0	27.64		ug/L		55	33 - 120
3-Nitroaniline	50.0	35.11		ug/L		70	54 - 121
4,6-Dinitro-2-methylphenol	50.0	35.06		ug/L		70	19 - 150
4-Bromophenyl phenyl ether	50.0	35.49		ug/L		71	47 - 127
4-Chloro-3-methylphenol	50.0	37.18		ug/L		74	44 - 120
4-Chlorophenyl phenyl ether	50.0	37.37		ug/L		75	50 - 120
4-Chloroaniline	50.0	34.37		ug/L		69	44 - 120
4-Nitroaniline	50.0	37.75		ug/L		75	55 - 123
4-Nitrophenol	50.0	ND		ug/L		30	10 - 120
Acenaphthylene	50.0	35.07		ug/L		70	48 - 120
Acenaphthene	50.0	33.67		ug/L		67	46 - 120
Benzo[a]anthracene	50.0	37.24		ug/L		74	57 - 120
Benzo[a]pyrene	50.0	34.21		ug/L		68	57 - 124

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-56992/2-A

Matrix: Water

Analysis Batch: 57185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	50.0	35.92		ug/L		72	51 - 125
Benzo[g,h,i]perylene	50.0	35.60		ug/L		71	51 - 123
Benzo[k]fluoranthene	50.0	34.85		ug/L		70	51 - 120
Anthracene	50.0	32.40		ug/L		65	58 - 130
Bis(2-chloroethoxy)methane	50.0	36.77		ug/L		74	44 - 120
Bis(2-chloroethyl)ether	50.0	36.35		ug/L		73	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	42.71		ug/L		85	47 - 138
bis (2-chloroisopropyl) ether	50.0	37.94		ug/L		76	44 - 120
Butyl benzyl phthalate	50.0	42.98		ug/L		86	51 - 146
Carbazole	50.0	36.13		ug/L		72	54 - 123
Chrysene	50.0	35.44		ug/L		71	55 - 120
Cresols	100	59.82		ug/L		60	33 - 120
Dibenz(a,h)anthracene	50.0	36.03		ug/L		72	50 - 125
Dibenzofuran	50.0	38.38		ug/L		77	50 - 120
Diethyl phthalate	50.0	40.22		ug/L		80	54 - 128
Dimethyl phthalate	50.0	38.41		ug/L		77	53 - 127
Di-n-butyl phthalate	50.0	37.06		ug/L		74	54 - 140
Di-n-octyl phthalate	50.0	43.86		ug/L		88	50 - 142
Fluoranthene	50.0	32.30		ug/L		65	56 - 120
Fluorene	50.0	34.69		ug/L		69	52 - 120
Hexachlorobenzene	50.0	36.15		ug/L		72	48 - 131
Hexachlorobutadiene	50.0	34.49		ug/L		69	28 - 120
Hexachlorocyclopentadiene	50.0	31.15		ug/L		62	17 - 120
Hexachloroethane	50.0	34.22		ug/L		68	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	34.44		ug/L		69	54 - 125
Isophorone	50.0	33.66		ug/L		67	47 - 120
Naphthalene	50.0	32.48		ug/L		65	37 - 120
Nitrobenzene	50.0	34.06		ug/L		68	36 - 120
N-Nitrosodi-n-propylamine	50.0	38.59		ug/L		77	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	41.52		ug/L		83	58 - 149
Pentachlorophenol	50.0	39.49		ug/L		79	21 - 150
Phenanthrene	50.0	34.51		ug/L		69	56 - 120
Phenol	50.0	12.31		ug/L		25	14 - 120
Pyrene	50.0	36.87		ug/L		74	53 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	68		10 - 120
2-Fluorobiphenyl (Surr)	61		29 - 120
2-Fluorophenol (Surr)	32		10 - 120
Nitrobenzene-d5 (Surr)	59		27 - 120
Phenol-d5 (Surr)	19		10 - 120
Terphenyl-d14 (Surr)	77		13 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-57250/12
Matrix: Water
Analysis Batch: 57250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/08/13 13:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	96		50 - 150		02/08/13 13:18	1		

Lab Sample ID: LCS 490-57250/6
Matrix: Water
Analysis Batch: 57250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	978.4		ug/L		98	66 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	82		50 - 150				

Lab Sample ID: LCSD 490-57250/7
Matrix: Water
Analysis Batch: 57250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	970.1		ug/L		97	66 - 140	1	42
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	82		50 - 150						

Lab Sample ID: MB 490-57951/6
Matrix: Water
Analysis Batch: 57951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			02/12/13 10:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	94		50 - 150		02/12/13 10:24	1		

Lab Sample ID: LCS 490-57951/4
Matrix: Water
Analysis Batch: 57951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1183		ug/L		118	66 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	80		50 - 150				

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCSD 490-57951/5
Matrix: Water
Analysis Batch: 57951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1139		ug/L		114	66 - 140	4	42
Surrogate		%Recovery	Qualifier						
<i>a,a,a-Trifluorotoluene</i>		80					50 - 150		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-56899/1-A
Matrix: Water
Analysis Batch: 56907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		02/07/13 12:07	02/07/13 17:56	1
Surrogate		%Recovery				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>		98				02/07/13 12:07	02/07/13 17:56	1

Lab Sample ID: LCS 490-56899/2-A
Matrix: Water
Analysis Batch: 56907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	900.2		ug/L		90	46 - 132
Surrogate		%Recovery	Qualifier				
<i>o-Terphenyl (Surr)</i>		80					50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-57820/3
Matrix: Water
Analysis Batch: 57820

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/11/13 19:53	1

Lab Sample ID: LCS 490-57820/4
Matrix: Water
Analysis Batch: 57820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.66		mg/L		105	90 - 110

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-18806-3 MS
Matrix: Water
Analysis Batch: 57820

Client Sample ID: OS-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2170		50.0	2007	E 4	mg/L		-332	80 - 120

Lab Sample ID: 490-18806-6 DU
Matrix: Water
Analysis Batch: 57820

Client Sample ID: OS-15S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	45.6		45.25		mg/L		0.8	20

Lab Sample ID: MB 490-58433/3
Matrix: Water
Analysis Batch: 58433

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/13/13 18:19	1

Lab Sample ID: LCS 490-58433/4
Matrix: Water
Analysis Batch: 58433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.93		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-58433/5
Matrix: Water
Analysis Batch: 58433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	49.28		mg/L		99	90 - 110	1	20

Lab Sample ID: MB 490-58688/3
Matrix: Water
Analysis Batch: 58688

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			02/15/13 07:52	1

Lab Sample ID: LCS 490-58688/4
Matrix: Water
Analysis Batch: 58688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.85		mg/L		106	90 - 110

Lab Sample ID: LCSD 490-58688/5
Matrix: Water
Analysis Batch: 58688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	53.08		mg/L		106	90 - 110	0	20



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-57104/1-A
Matrix: Water
Analysis Batch: 57430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57104

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 15:35	1
Chromium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 15:35	1
Cobalt	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 15:35	1
Copper	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 15:35	1
Iron	ND		0.100	mg/L		02/08/13 08:18	02/08/13 15:35	1
Lead	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 15:35	1
Manganese	ND		0.0150	mg/L		02/08/13 08:18	02/08/13 15:35	1
Nickel	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 15:35	1
Selenium	ND		0.0100	mg/L		02/08/13 08:18	02/08/13 15:35	1
Thallium	ND		0.00500	mg/L		02/08/13 08:18	02/08/13 15:35	1
Vanadium	ND		0.0200	mg/L		02/08/13 08:18	02/08/13 15:35	1

Lab Sample ID: LCS 490-57104/2-A
Matrix: Water
Analysis Batch: 57430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57104

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05010		mg/L		100	80 - 120
Chromium	0.200	0.2094		mg/L		105	80 - 120
Cobalt	0.500	0.5078		mg/L		102	80 - 120
Copper	0.250	0.2670		mg/L		107	80 - 120
Iron	1.00	1.027		mg/L		103	80 - 120
Lead	0.0500	0.05630		mg/L		113	80 - 120
Manganese	0.500	0.5294		mg/L		106	80 - 120
Nickel	0.500	0.5346		mg/L		107	80 - 120
Selenium	0.0500	0.05100		mg/L		102	80 - 120
Thallium	0.0500	0.05410		mg/L		108	80 - 120
Vanadium	0.500	0.5182		mg/L		104	80 - 120

Lab Sample ID: 490-18806-11 MS
Matrix: Water
Analysis Batch: 57430

Client Sample ID: OS-5E
Prep Type: Total/NA
Prep Batch: 57104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0123		0.0500	0.06170		mg/L		99	75 - 125
Chromium	0.433		0.200	0.6019		mg/L		84	75 - 125
Cobalt	ND		0.500	0.5230		mg/L		104	75 - 125
Copper	0.0101		0.250	0.2639		mg/L		102	75 - 125
Iron	ND		1.00	1.045		mg/L		96	75 - 125
Lead	0.0148		0.0500	0.06820		mg/L		107	75 - 125
Manganese	ND		0.500	0.4967		mg/L		97	75 - 125
Nickel	ND		0.500	0.5493		mg/L		110	75 - 125
Selenium	0.0161		0.0500	0.07340		mg/L		115	75 - 125
Thallium	ND		0.0500	0.04720		mg/L		94	75 - 125
Vanadium	0.425		0.500	0.8796		mg/L		91	75 - 125

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-18806-11 MSD

Matrix: Water

Analysis Batch: 57430

Client Sample ID: OS-5E

Prep Type: Total/NA

Prep Batch: 57104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0123		0.0500	0.06580		mg/L		107	75 - 125	6	20
Chromium	0.433		0.200	0.6225		mg/L		95	75 - 125	3	20
Cobalt	ND		0.500	0.5364		mg/L		107	75 - 125	3	20
Copper	0.0101		0.250	0.2699		mg/L		104	75 - 125	2	20
Iron	ND		1.00	1.066		mg/L		98	75 - 125	2	20
Lead	0.0148		0.0500	0.07250		mg/L		115	75 - 125	6	20
Manganese	ND		0.500	0.5057		mg/L		99	75 - 125	2	20
Nickel	ND		0.500	0.5640		mg/L		113	75 - 125	3	20
Selenium	0.0161		0.0500	0.07600		mg/L		120	75 - 125	3	20
Thallium	ND		0.0500	0.05050		mg/L		101	75 - 125	7	20
Vanadium	0.425		0.500	0.9243		mg/L		100	75 - 125	5	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

GC/MS VOA

Analysis Batch: 56494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-1	Trip Blank-1	Total/NA	Water	8260B	
490-18806-2	MW-13 ISOC	Total/NA	Water	8260B	
490-18806-3	OS-25S	Total/NA	Water	8260B	
490-18806-4	Trip Blank-2	Total/NA	Water	8260B	
490-18806-5	OS-20S	Total/NA	Water	8260B	
490-18806-7	Trip Blank-3	Total/NA	Water	8260B	
490-18806-8	OS-10S	Total/NA	Water	8260B	
490-18806-9	OS-5S	Total/NA	Water	8260B	
490-18806-10	Trip Blank-4	Total/NA	Water	8260B	
490-18806-12	OS-10E	Total/NA	Water	8260B	
LCS 490-56494/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-56494/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-56494/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 57129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	8260B	
490-18806-3	OS-25S	Total/NA	Water	8260B	
490-18806-5	OS-20S	Total/NA	Water	8260B	
490-18806-6	OS-15S	Total/NA	Water	8260B	
490-18806-8	OS-10S	Total/NA	Water	8260B	
490-18806-9	OS-5S	Total/NA	Water	8260B	
490-18806-11	OS-5E	Total/NA	Water	8260B	
LCS 490-57129/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-57129/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-57129/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 56992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	3510C	
490-18806-3	OS-25S	Total/NA	Water	3510C	
490-18806-5	OS-20S	Total/NA	Water	3510C	
490-18806-6	OS-15S	Total/NA	Water	3510C	
490-18806-8	OS-10S	Total/NA	Water	3510C	
490-18806-9	OS-5S	Total/NA	Water	3510C	
490-18806-11	OS-5E	Total/NA	Water	3510C	
490-18806-12	OS-10E	Total/NA	Water	3510C	
LCS 490-56992/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-56992/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 57185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	8270D	56992
490-18806-2	MW-13 ISOC	Total/NA	Water	8270D	56992
490-18806-3	OS-25S	Total/NA	Water	8270D	56992
490-18806-3	OS-25S	Total/NA	Water	8270D	56992
490-18806-5	OS-20S	Total/NA	Water	8270D	56992
490-18806-5	OS-20S	Total/NA	Water	8270D	56992

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

GC/MS Semi VOA (Continued)

Analysis Batch: 57185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-6	OS-15S	Total/NA	Water	8270D	56992
490-18806-8	OS-10S	Total/NA	Water	8270D	56992
490-18806-8	OS-10S	Total/NA	Water	8270D	56992
490-18806-9	OS-5S	Total/NA	Water	8270D	56992
490-18806-11	OS-5E	Total/NA	Water	8270D	56992
490-18806-12	OS-10E	Total/NA	Water	8270D	56992
LCS 490-56992/2-A	Lab Control Sample	Total/NA	Water	8270D	56992
MB 490-56992/1-A	Method Blank	Total/NA	Water	8270D	56992

GC VOA

Analysis Batch: 57250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	8015C	
490-18806-5	OS-20S	Total/NA	Water	8015C	
490-18806-6	OS-15S	Total/NA	Water	8015C	
490-18806-8	OS-10S	Total/NA	Water	8015C	
490-18806-9	OS-5S	Total/NA	Water	8015C	
490-18806-11	OS-5E	Total/NA	Water	8015C	
490-18806-12	OS-10E	Total/NA	Water	8015C	
LCS 490-57250/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-57250/7	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-57250/12	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 57951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-3	OS-25S	Total/NA	Water	8015C	
LCS 490-57951/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-57951/5	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-57951/6	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 56899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	3510C	
490-18806-3	OS-25S	Total/NA	Water	3510C	
490-18806-5	OS-20S	Total/NA	Water	3510C	
490-18806-6	OS-15S	Total/NA	Water	3510C	
490-18806-8	OS-10S	Total/NA	Water	3510C	
490-18806-9	OS-5S	Total/NA	Water	3510C	
490-18806-11	OS-5E	Total/NA	Water	3510C	
490-18806-12	OS-10E	Total/NA	Water	3510C	
LCS 490-56899/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-56899/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 56907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-5	OS-20S	Total/NA	Water	8015C	56899
490-18806-6	OS-15S	Total/NA	Water	8015C	56899

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

GC Semi VOA (Continued)

Analysis Batch: 56907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-8	OS-10S	Total/NA	Water	8015C	56899
490-18806-9	OS-5S	Total/NA	Water	8015C	56899
490-18806-11	OS-5E	Total/NA	Water	8015C	56899
490-18806-12	OS-10E	Total/NA	Water	8015C	56899
LCS 490-56899/2-A	Lab Control Sample	Total/NA	Water	8015C	56899
MB 490-56899/1-A	Method Blank	Total/NA	Water	8015C	56899

Analysis Batch: 57210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	8015C	56899
490-18806-3	OS-25S	Total/NA	Water	8015C	56899

HPLC/IC

Analysis Batch: 57820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-3 MS	OS-25S	Total/NA	Water	300.0	
490-18806-6	OS-15S	Total/NA	Water	300.0	
490-18806-6 DU	OS-15S	Total/NA	Water	300.0	
LCS 490-57820/4	Lab Control Sample	Total/NA	Water	300.0	
MB 490-57820/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 58433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	300.0	
490-18806-3	OS-25S	Total/NA	Water	300.0	
490-18806-5	OS-20S	Total/NA	Water	300.0	
490-18806-8	OS-10S	Total/NA	Water	300.0	
490-18806-12	OS-10E	Total/NA	Water	300.0	
LCS 490-58433/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-58433/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-58433/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 58688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-9	OS-5S	Total/NA	Water	300.0	
490-18806-11	OS-5E	Total/NA	Water	300.0	
LCS 490-58688/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-58688/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-58688/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 57104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	3010A	
490-18806-3	OS-25S	Total/NA	Water	3010A	
490-18806-5	OS-20S	Total/NA	Water	3010A	
490-18806-6	OS-15S	Total/NA	Water	3010A	
490-18806-8	OS-10S	Total/NA	Water	3010A	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Metals (Continued)

Prep Batch: 57104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-9	OS-5S	Total/NA	Water	3010A	
490-18806-11	OS-5E	Total/NA	Water	3010A	
490-18806-11 MS	OS-5E	Total/NA	Water	3010A	
490-18806-11 MSD	OS-5E	Total/NA	Water	3010A	
490-18806-12	OS-10E	Total/NA	Water	3010A	
LCS 490-57104/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-57104/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 57430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-2	MW-13 ISOC	Total/NA	Water	6010C	57104
490-18806-3	OS-25S	Total/NA	Water	6010C	57104
490-18806-5	OS-20S	Total/NA	Water	6010C	57104
490-18806-6	OS-15S	Total/NA	Water	6010C	57104
490-18806-11	OS-5E	Total/NA	Water	6010C	57104
490-18806-11 MS	OS-5E	Total/NA	Water	6010C	57104
490-18806-11 MSD	OS-5E	Total/NA	Water	6010C	57104
490-18806-12	OS-10E	Total/NA	Water	6010C	57104
LCS 490-57104/2-A	Lab Control Sample	Total/NA	Water	6010C	57104
MB 490-57104/1-A	Method Blank	Total/NA	Water	6010C	57104

Analysis Batch: 57730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-18806-8	OS-10S	Total/NA	Water	6010C	57104
490-18806-9	OS-5S	Total/NA	Water	6010C	57104



Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-18806-1

Date Collected: 02/04/13 08:00

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 14:38	JM	TAL NSH

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-18806-2

Date Collected: 02/04/13 08:50

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 16:32	JM	TAL NSH
Total/NA	Analysis	8260B		20	57129	02/08/13 16:11	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		10	57185	02/08/13 18:26	JS	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 12:43	JS	TAL NSH
Total/NA	Analysis	8015C		5	57250	02/08/13 20:21	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		2	57210	02/08/13 14:09	JF	TAL NSH
Total/NA	Analysis	300.0		200	58433	02/13/13 19:17	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 16:15	BB	TAL NSH

Client Sample ID: OS-25S

Lab Sample ID: 490-18806-3

Date Collected: 02/04/13 10:25

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 17:57	JM	TAL NSH
Total/NA	Analysis	8260B		5	57129	02/08/13 14:16	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		10	57185	02/08/13 18:47	JS	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 13:04	JS	TAL NSH
Total/NA	Analysis	8015C		1	57951	02/12/13 11:55	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		2	57210	02/08/13 14:24	JF	TAL NSH
Total/NA	Analysis	300.0		50	58433	02/13/13 19:36	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 16:18	BB	TAL NSH

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-18806-4

Date Collected: 02/04/13 11:00

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 15:06	JM	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-20S

Lab Sample ID: 490-18806-5

Date Collected: 02/04/13 11:15

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 18:26	JM	TAL NSH
Total/NA	Analysis	8260B		5	57129	02/08/13 14:45	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		5	57185	02/08/13 19:08	JS	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 13:26	JS	TAL NSH
Total/NA	Analysis	8015C		1	57250	02/08/13 17:50	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		1	56907	02/07/13 18:59	KH	TAL NSH
Total/NA	Analysis	300.0		50	58433	02/13/13 19:55	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 16:22	BB	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-18806-6

Date Collected: 02/04/13 11:55

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	57129	02/08/13 13:19	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 13:47	JS	TAL NSH
Total/NA	Analysis	8015C		1	57250	02/08/13 18:20	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		1	56907	02/07/13 19:15	KH	TAL NSH
Total/NA	Analysis	300.0		1	57820	02/11/13 21:53	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 16:25	BB	TAL NSH

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-18806-7

Date Collected: 02/04/13 12:00

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 15:35	JM	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 19:23	JM	TAL NSH
Total/NA	Analysis	8260B		5	57129	02/08/13 15:13	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-10S

Lab Sample ID: 490-18806-8

Date Collected: 02/04/13 12:45

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	57185	02/08/13 14:09	JS	TAL NSH
Total/NA	Analysis	8270D		5	57185	02/08/13 19:29	JS	TAL NSH
Total/NA	Analysis	8015C		1	57250	02/08/13 18:51	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		1	56907	02/07/13 19:31	KH	TAL NSH
Total/NA	Analysis	300.0		200	58433	02/13/13 20:33	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		100	57730	02/11/13 12:48	KJ	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-18806-9

Date Collected: 02/04/13 13:25

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 20:48	JM	TAL NSH
Total/NA	Analysis	8260B		5	57129	02/08/13 15:42	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 14:30	JS	TAL NSH
Total/NA	Analysis	8015C		5	57250	02/08/13 20:52	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		1	56907	02/07/13 19:47	KH	TAL NSH
Total/NA	Analysis	300.0		500	58688	02/15/13 08:52	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		2	57730	02/11/13 12:51	KJ	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-18806-10

Date Collected: 02/04/13 13:30

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 16:03	JM	TAL NSH

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	57129	02/08/13 13:48	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 14:51	JS	TAL NSH
Total/NA	Analysis	8015C		1	57250	02/08/13 19:21	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Client Sample ID: OS-5E

Lab Sample ID: 490-18806-11

Date Collected: 02/04/13 14:00

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	56907	02/07/13 20:03	KH	TAL NSH
Total/NA	Analysis	300.0		50	58688	02/15/13 09:12	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 15:42	BB	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-18806-12

Date Collected: 02/04/13 14:40

Matrix: Water

Date Received: 02/06/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	56494	02/07/13 20:20	JM	TAL NSH
Total/NA	Prep	3510C			56992	02/07/13 15:17	CH	TAL NSH
Total/NA	Analysis	8270D		1	57185	02/08/13 15:13	JS	TAL NSH
Total/NA	Analysis	8015C		1	57250	02/08/13 19:51	GM	TAL NSH
Total/NA	Prep	3510C			56899	02/07/13 12:07	CH	TAL NSH
Total/NA	Analysis	8015C		1	56907	02/07/13 20:19	KH	TAL NSH
Total/NA	Analysis	300.0		10	58433	02/13/13 23:06	KD	TAL NSH
Total/NA	Prep	3010A			57104	02/08/13 08:18	NLI	TAL NSH
Total/NA	Analysis	6010C		1	57430	02/08/13 16:35	BB	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
SDG: 6228-12-0021

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13020173

TestAmerica Job ID: 490-18806-1
 SDG: 6228-12-0021

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13



490-18806 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 2/6/2013 @ 0830

1. Tracking # 4566 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) WA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) F

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) F

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) F

I certify that I attached a label with the unique LIMS number to each container (initial) F

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...#



Duke

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Loc: 490
18806

COOLER RECEIPT FORM

Cooler Received/Opened On 2/6/2013 @ 0830

1. Tracking # 4588 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (initial) S

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) G

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) S

I certify that I attached a label with the unique LIMS number to each container (initial) S

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..#

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Duke

COOLER RECEIPT FORM

Cooler Received/Opened On 2/6/2013 @ 0830

1. Tracking # 4603 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (initial) F

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) F

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) F

I certify that I attached a label with the unique LIMS number to each container (initial) F

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO #

COOLER RECEIPT FORM

Loc: 490
18806
#1
A

Cooler Received/Opened On 2/6/2013 @ 0830

1. Tracking # 4599 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 13 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 4

I certify that I unloaded the cooler and answered questions 7-14 (initial) F

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) F

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) F

I certify that I attached a label with the unique LIMS number to each container (initial) F

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO #

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days*

Organic & Inorganic Analyses
 10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Request less than standard may incur Rush Charges.

CLIENT: Duke Energy	INVOICE TO:	PRESERVATIVE		REQUESTED ANALYSES		TURNAROUND REQUEST	
REPORT TO: Andy Clark ADDRESS: 2801 Yorkmont Rd Ste 100 Charlotte, NC 28208 PHONE: 704-357-8200 FAX:		HCL	N	HCL	HCL	In Business Days*	
PROJECT NAME: Duke Energy Spartanburg	PROJECT NUMBER: 6228-12-0021	VOCs		PRO	GRO	Organic & Inorganic Analyses	
SAMPLED BY: Troy Helzlsouer		SVOCS		Metals	see Rem	Petroleum Hydrocarbon Analyses	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Sulfate				OTHER Specify:	
1 Trip Blank-1	2-4-13/ 800					* Turnaround Request less than standard may incur Rush Charges.	
2 MW-13 ISOC	2-4-13/ 850					Matrix (W, S, O)	
3 OS-255	2-4-13/ 1025					# OF CONT.	
4 Trip Blank-2	2-4-13/ 1100					LOCATION/ COMMENTS	
5 OS-205	2-4-13/ 1115					TA WORD ID	
6 OS-155	2-4-13/ 1155					Loc: 490	
7 Trip Blank-3	2-4-13/ 1200					18806	
8 OS-105	2-4-13/ 1245						
9 OS-55	2-4-13/ 1325						
10 Trip Blank-4	2-4-13/ 1330					Was bubbly due to agitation/Residue	
RELEASED BY: Troy Helzlsouer	FIRM: AMEC	DATE: 2-5-13	TIME: 1100	RECEIVED BY: C. BOHANNAN	FIRM: IT	DATE: 2/05/13	TIME: 1100
PRINT NAME: C. BOHANNAN	FIRM: TA	DATE: 2/05/13	TIME: 1810	RECEIVED BY: [Signature]	FIRM: IT	DATE: 2-6-13	TIME: 08:30
ADDITIONAL REMARKS: Metals: Arsenic, Chromium, Selenium, Tellurium, Vanadium, Copper, Nickel, Lead, Iron, manganese, cobalt							

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days*

Organic & Inorganic Analyses
 10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT: Duke Energy		INVOICE TO:		PRESERVATIVE		TURNAROUND REQUEST	
REPORT TO: Andy Clark		ADDRESS: 2801 Verikent Rd Ste 100		P.O. NUMBER:		Organic & Inorganic Analyses	
ADDRESS: Charlotte, NC 28208		PHONE: 704-357-8600 FAX:		PROJECT NAME: Duke Energy Spartanburg		Petroleum Hydrocarbon Analyses	
PROJECT NUMBER: 6238-120021		SAMPLED BY: Troy L Holzschuh		PROJECT NAME: Duke Energy Spartanburg		OTHER Specify:	
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		HCL No		NO HCL HCL HCL HCL	
1 OS-5E		2-4-13/1400		VOCs		REQ/TESTED ANALYSES	
2 OS-10E		2-4-13/1440		SVOCs		Sulfate	
				DRO		GRO	
				Metals		See Report	
				Loc: 490		18806	
RELEASED BY: Troy L Holzschuh		FIRM: AMEC		DATE: 2-5-13		RECEIVED BY: A. Brennan	
PRINT NAME: Troy L Holzschuh		FIRM: AMEC		TIME: 1100		PRINT NAME: A. Brennan	
RELEASED BY: A. Brennan		FIRM: TA		DATE: 2/05/13		RECEIVED BY: [Signature]	
PRINT NAME: A. Brennan		FIRM: TA		TIME: 1830		PRINT NAME: [Signature]	
ADDITIONAL REMARKS:							
Metals: Arsenic, Chromium, Selenium, Thallium, Vanadium, Copper, Nickel, Lead, Iron, Manganese, Cobalt							

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-18806-1

SDG Number: 6228-12-0021

Login Number: 18806**List Number: 1****Creator: Ford, Easton****List Source: TestAmerica Nashville**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13030064

Project Name:

Customer Name(s): Andy Clark, Jessica Bednarcik

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

**Report Authorized By:
(Signature)**


Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.03.15 12:50:58 -04'00'

Date: 3/14/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013005127	SPARTANBURG	28-Feb-13 8:30 AM	AMEC	490-20658 OR-10S
2013005128	SPARTANBURG	28-Feb-13 8:40 AM	AMEC	490-20658 OS-10E
2013005129	SPARTANBURG	28-Feb-13 9:55 AM	AMEC	490-20658 OR-3W
2013005130	SPARTANBURG	28-Feb-13 10:00 AM	AMEC	490-20658 OS-5E
2013005131	SPARTANBURG	28-Feb-13 11:10 AM	AMEC	490-20658 OR-5W
2013005132	SPARTANBURG	28-Feb-13 11:00 AM	AMEC	490-20658 OS-5N
2013005133	SPARTANBURG	28-Feb-13	AMEC	490-20658 DUP-2
2013005134	SPARTANBURG	28-Feb-13 12:00 PM	AMEC	490-20658 OS-5S
2013005135	SPARTANBURG	28-Feb-13 12:45 PM	AMEC	490-20658 OR-10W
2013005136	SPARTANBURG	28-Feb-13 8:00 AM	AMEC	490-20658 TRIP BLANK-4
2013005137	SPARTANBURG	28-Feb-13 1:25 PM	AMEC	490-20658 OS-10S
2013005138	SPARTANBURG	28-Feb-13 2:10 PM	AMEC	490-20658 OS-25S
2013005139	SPARTANBURG	28-Feb-13 2:20 PM	AMEC	490-20658 OS-15S
2013005140	SPARTANBURG	28-Feb-13 3:15 PM	AMEC	490-20658 OS-20S
14 Total Samples				

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualifi Test America

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 3/14/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-10S
Collection Date: 28-Feb-13 8:30 AM

Sample #: 2013005127
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-10E
Collection Date: 28-Feb-13 8:40 AM

Sample #: 2013005128
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-3W
Collection Date: 28-Feb-13 9:55 AM

Sample #: 2013005129
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-3W

Collection Date: 28-Feb-13 9:55 AM

Sample #: 2013005129

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5E

Collection Date: 28-Feb-13 10:00 AM

Sample #: 2013005130

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-5W

Collection Date: 28-Feb-13 11:10 AM

Sample #: 2013005131

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13030064

Site: 490-20658 OR-5W
Collection Date: 28-Feb-13 11:10 AM

Sample #: 2013005131
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5N
Collection Date: 28-Feb-13 11:00 AM

Sample #: 2013005132
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 DUP-2
Collection Date: 28-Feb-13

Sample #: 2013005133
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 DUP-2

Collection Date: 28-Feb-13

Sample #: 2013005133

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5S

Collection Date: 28-Feb-13 12:00 PM

Sample #: 2013005134

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-10W

Collection Date: 28-Feb-13 12:45 PM

Sample #: 2013005135

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

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Order # J13030064

Site: 490-20658 OR-10W
Collection Date: 28-Feb-13 12:45 PM

Sample #: 2013005135
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 TRIP BLANK-4
Collection Date: 28-Feb-13 8:00 AM

Sample #: 2013005136
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-10S
Collection Date: 28-Feb-13 1:25 PM

Sample #: 2013005137
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-25S
Collection Date: 28-Feb-13 2:10 PM

Sample #: 2013005138
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13030064

Site: 490-20658 OS-25S

Collection Date: 28-Feb-13 2:10 PM

Sample #: 2013005138

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-15S

Collection Date: 28-Feb-13 2:20 PM

Sample #: 2013005139

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-20S

Collection Date: 28-Feb-13 3:15 PM

Sample #: 2013005140

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

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Order # J13030064

Site: 490-20658 OS-20S

Collection Date: 28-Feb-13 3:15 PM

Sample #: 2013005140

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-20658-1
Client Project/Site: Pine Street MGP (Spartanburg) J13030064

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
3/13/2013 2:29:11 PM

Shali Brown
Project Manager I
shali.brown@testamericainc.com



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-20658-1	OR-10S	Water	02/28/13 08:30	03/01/13 13:21
490-20658-2	OS-10E	Water	02/28/13 08:40	03/01/13 13:21
490-20658-3	OR-3W	Water	02/28/13 09:55	03/01/13 13:21
490-20658-4	OS-5E	Water	02/28/13 10:00	03/01/13 13:21
490-20658-5	OR-5W	Water	02/28/13 11:10	03/01/13 13:21
490-20658-6	OS-5N	Water	02/28/13 11:00	03/01/13 13:21
490-20658-7	Dup-2	Water	02/28/13 00:00	03/01/13 13:21
490-20658-8	OS-5S	Water	02/28/13 12:00	03/01/13 13:21
490-20658-9	OR-10W	Water	02/28/13 12:45	03/01/13 13:21
490-20658-10	Trip Blank-4	Water	02/28/13 08:00	03/01/13 13:21
490-20658-11	OS-10S	Water	02/28/13 13:25	03/01/13 13:21
490-20658-12	OS-25S	Water	02/28/13 14:10	03/01/13 13:21
490-20658-13	OS-15S	Water	02/28/13 14:20	03/01/13 13:21
490-20658-14	OS-20S	Water	02/28/13 15:15	03/01/13 13:21



Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1**Laboratory: TestAmerica Nashville**

Narrative

CASE NARRATIVE**Client: Duke Energy Corporation****Project: Pine Street MGP (Spartanburg) J13030064****Report Number: 490-20658-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/1/2013 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were -0.1° C, 0.2° C, 0.3° C, 0.3° C, 0.8° C and 1.0° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), Trip Blank-4 (490-20658-10), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/05/2013.

Naphthalene failed the recovery criteria high for the MS of sample OR-10WMS (490-20658-9) in batch 490-62691. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Dup-2 (490-20658-7) and OS-5S (490-20658-8).

Samples OR-10S (490-20658-1)[20X], OR-3W (490-20658-3)[5X], OR-5W (490-20658-5)[10X], OS-10S (490-20658-11)[5X], OS-25S

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)**

(490-20658-12)[10X] and OS-20S (490-20658-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/06/2013 and analyzed on 03/07/2013 and 03/08/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 63231.

Samples OR-10S (490-20658-1)[10X], OR-10S (490-20658-1)[100X], OR-3W (490-20658-3)[10X], OR-5W (490-20658-5)[10X], Dup-2 (490-20658-7)[10X], OS-5S (490-20658-8)[10X], OR-10W (490-20658-9)[10X], OS-10S (490-20658-11)[10X], OS-25S (490-20658-12)[10X], OS-15S (490-20658-13)[2X] and OS-20S (490-20658-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 03/05/2013 and 03/06/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 62941. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

The following sample(s) was diluted due to the nature of the sample matrix: 490-20658-d-1. Sample was a foamer. Elevated reporting limits (RLs) are provided.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Dup-2 (490-20658-7) and OS-5S (490-20658-8).

Sample OR-10S (490-20658-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 03/05/2013 and analyzed on 03/05/2013 and 03/06/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 62734.

Samples OR-10S (490-20658-1)[5X], OR-3W (490-20658-3)[4X], OR-5W (490-20658-5)[5X], Dup-2 (490-20658-7)[4X], OS-5S (490-20658-8)[4X], OR-10W (490-20658-9)[2X], OS-10S (490-20658-11)[4X], OS-25S (490-20658-12)[5X] and OS-20S (490-20658-14)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)****TOTAL METALS (ICP)**

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/06/2013 and 03/08/2013 and analyzed on 03/07/2013, 03/08/2013 and 03/11/2013.

The reference method requires samples to be preserved to a pH of <2. The following sample(s) was received with insufficient preservation: (490-20658-7 MS), (490-20658-7 MSD), Dup-2 (490-20658-7), OS-5S (490-20658-8). The sample(s) was preserved to the appropriate pH in the laboratory on 3/6/13 at 1630. Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Chromium failed the recovery criteria low for the MS and MSD of sample Dup-2MS (490-20658-7)/Dup-2MSD (490-20658-7) in batch 490-64234. The associated laboratory control sample (LCS) met acceptance criteria.
Selenium failed the recovery criteria high for the MS and MSD of sample 490-20658-1 in batch 490-63655. The associated laboratory control sample (LCS) met acceptance criteria.

The serial dilution performed for the following sample(s) associated with batch 490-63228 was outside control limits for K and S:
490-20658-G-1 (490-20658-1 SD)

The post digestion spike % recovery for As, Cu, Fe, Pb, Se, Ti, V, Ag, Mg, Sb, and Li associated with batch 490-63705 was outside of control limits: 490-20658-7 (Dup-2)

The continuing calibration verification (CCV) for analytical batch 63655 exceeded control criteria for Na and S due to carryover from the previous samples. The data have been qualified and reported.

The following sample(s) was diluted due to the abundance of non-target analytes: Mn, Na, and S. OR-10S (490-20658-1). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of non-target analytes: Na and S Dup-2 (490-20658-7), OS-5S (490-20658-8). Elevated reporting limits (RLs) are provided.

Samples OR-10S (490-20658-1)[100X], OR-5W (490-20658-5)[10X], Dup-2 (490-20658-7)[100X] and OS-5S (490-20658-8)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

SULFATE

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 03/06/2013, 03/08/2013 and 03/13/2013.

Samples OR-10S (490-20658-1)[500X], OS-10E (490-20658-2)[5X], OR-3W (490-20658-3)[100X], OS-5E (490-20658-4)[10X], OR-5W (490-20658-5)[50X], OS-5N (490-20658-6)[50X], Dup-2 (490-20658-7)[500X], OS-5S (490-20658-8)[500X], OR-10W (490-20658-9)[200X], OS-10S (490-20658-11)[100X], OS-25S (490-20658-12)[10X] and OS-20S (490-20658-14)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the sulfate analyses. All quality control parameters were within the acceptance limits.

Organic Prep

Method(s) 3510C: The following sample(s) was improperly preserved in the field: Dup-2 (490-20658-7), OS-5S (490-20658-8). The preservative used is not compatible with the analytes requested. Samples had a pH 7, lab preserved to pH 2 using sulfuric acid.

Method(s) 3510C: Samples 490-20658-K-7 and 490-20658-K-8 ate the surrogate for code 8270 D during the acid shake.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

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Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 02:59	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,4-Trimethylbenzene	10.5		1.00	ug/L			03/05/13 02:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 02:59	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 02:59	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 02:59	1
2-Hexanone	ND		10.0	ug/L			03/05/13 02:59	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 02:59	1
Acetone	210		50.0	ug/L			03/05/13 02:59	1
Benzene	20.6		1.00	ug/L			03/05/13 02:59	1
Bromobenzene	ND		1.00	ug/L			03/05/13 02:59	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 02:59	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 02:59	1
Bromoform	ND		1.00	ug/L			03/05/13 02:59	1
Bromomethane	1.89		1.00	ug/L			03/05/13 02:59	1
Carbon disulfide	27.7		1.00	ug/L			03/05/13 02:59	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 02:59	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 02:59	1
Chloroethane	ND		1.00	ug/L			03/05/13 02:59	1
Chloroform	ND		1.00	ug/L			03/05/13 02:59	1
Chloromethane	4.76		1.00	ug/L			03/05/13 02:59	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
Dibromomethane	ND		1.00	ug/L			03/05/13 02:59	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 02:59	1
Ethylbenzene	56.8		1.00	ug/L			03/05/13 02:59	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 02:59	1
Isopropylbenzene	9.98		1.00	ug/L			03/05/13 02:59	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 02:59	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 02:59	1
Naphthalene	1580		100	ug/L			03/05/13 18:01	20
n-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
N-Propylbenzene	3.33		1.00	ug/L			03/05/13 02:59	1
p-Isopropyltoluene	1.06		1.00	ug/L			03/05/13 02:59	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
Styrene	ND		1.00	ug/L			03/05/13 02:59	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 02:59	1
Toluene	3.45		1.00	ug/L			03/05/13 02:59	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
Trichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 02:59	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 02:59	1
Xylenes, Total	29.2		3.00	ug/L			03/05/13 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/05/13 02:59	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/05/13 18:01	20
4-Bromofluorobenzene (Surr)	99		70 - 130		03/05/13 02:59	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 18:01	20
Dibromofluoromethane (Surr)	100		70 - 130		03/05/13 02:59	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 18:01	20
Toluene-d8 (Surr)	96		70 - 130		03/05/13 02:59	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 18:01	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1-Methylnaphthalene	371		20.0	ug/L		03/06/13 14:57	03/08/13 11:01	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Methylnaphthalene	491		20.0	ug/L		03/06/13 14:57	03/08/13 11:01	10
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Acenaphthylene	3.60		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Acenaphthene	49.2		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-chloroethoxy)methane	11.1		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dibenzofuran	10.2		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Fluorene	14.9		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Naphthalene	1690		200	ug/L		03/06/13 14:57	03/08/13 15:16	100
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Phenanthrene	13.7		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			03/06/13 14:57	03/07/13 19:52	1
2-Fluorobiphenyl (Surr)	60		29 - 120			03/06/13 14:57	03/07/13 19:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	41		10 - 120	03/06/13 14:57	03/07/13 19:52	1
Nitrobenzene-d5 (Surr)	52		27 - 120	03/06/13 14:57	03/07/13 19:52	1
Phenol-d5 (Surr)	27		10 - 120	03/06/13 14:57	03/07/13 19:52	1
Terphenyl-d14 (Surr)	74		13 - 120	03/06/13 14:57	03/07/13 19:52	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			03/05/13 22:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150		03/05/13 22:26	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4860		526	ug/L		03/05/13 07:48	03/06/13 11:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	03/05/13 07:48	03/06/13 11:51	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	18100		500	mg/L			03/06/13 18:02	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Chromium	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Cobalt	ND		2.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Copper	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Iron	ND		10.0	mg/L		03/06/13 14:45	03/08/13 10:38	100
Lead	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Manganese	40.7		1.50	mg/L		03/06/13 14:45	03/08/13 10:38	100
Nickel	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Selenium	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Thallium	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Vanadium	ND		2.00	mg/L		03/06/13 14:45	03/08/13 10:38	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 15:45	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 15:45	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 15:45	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 15:45	1
2-Hexanone	ND		10.0	ug/L			03/05/13 15:45	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 15:45	1
Acetone	ND		50.0	ug/L			03/05/13 15:45	1
Benzene	ND		1.00	ug/L			03/05/13 15:45	1
Bromobenzene	ND		1.00	ug/L			03/05/13 15:45	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 15:45	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 15:45	1
Bromoform	ND		1.00	ug/L			03/05/13 15:45	1
Bromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 15:45	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 15:45	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Chloroethane	ND		1.00	ug/L			03/05/13 15:45	1
Chloroform	ND		1.00	ug/L			03/05/13 15:45	1
Chloromethane	ND		1.00	ug/L			03/05/13 15:45	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
Dibromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 15:45	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 15:45	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 15:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 15:45	1
Naphthalene	ND		5.00	ug/L			03/05/13 15:45	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 15:45	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Styrene	ND		1.00	ug/L			03/05/13 15:45	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 15:45	1
Toluene	ND		1.00	ug/L			03/05/13 15:45	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
Trichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 15:45	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 15:45	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/05/13 15:45	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 15:45	1
Dibromofluoromethane (Surr)	102		70 - 130		03/05/13 15:45	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 15:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,2-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,3-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,4-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4,5-Trichlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4,6-Trichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dimethylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dinitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,6-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Chloronaphthalene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Chlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Nitrophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3,3'-Dichlorobenzidine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3 & 4 Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4,6-Dinitro-2-methylphenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Bromophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Chloro-3-methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Chlorophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Nitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
Acenaphthylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Acenaphthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[a]anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[a]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[b]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[g,h,i]perylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[k]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-chloroethoxy)methane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-chloroethyl)ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-ethylhexyl) phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
bis (2-chloroisopropyl) ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Butyl benzyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Carbazole	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Chrysene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Cresols	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dibenz(a,h)anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dibenzofuran	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Diethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dimethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Di-n-butyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Di-n-octyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Fluorene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorobutadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorocyclopentadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachloroethane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Indeno[1,2,3-cd]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Isophorone	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Naphthalene	2.57		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Nitrobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
N-Nitrosodi-n-propylamine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Pentachlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
Phenanthrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Phenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120			03/06/13 14:57	03/07/13 20:13	1
2-Fluorobiphenyl (Surr)	71		29 - 120			03/06/13 14:57	03/07/13 20:13	1
2-Fluorophenol (Surr)	42		10 - 120			03/06/13 14:57	03/07/13 20:13	1
Nitrobenzene-d5 (Surr)	67		27 - 120			03/06/13 14:57	03/07/13 20:13	1
Phenol-d5 (Surr)	26		10 - 120			03/06/13 14:57	03/07/13 20:13	1
Terphenyl-d14 (Surr)	90		13 - 120			03/06/13 14:57	03/07/13 20:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/05/13 22:56	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	92		50 - 150				03/05/13 22:56	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	152		125	ug/L		03/05/13 07:48	03/05/13 15:21	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	66		50 - 150			03/05/13 07:48	03/05/13 15:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	94.2		5.00	mg/L			03/13/13 00:05	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:23	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Iron	1.20		0.100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Lead	0.00550		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Manganese	1.02		0.0150	mg/L		03/06/13 14:45	03/07/13 22:23	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 03:53	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,4-Trimethylbenzene	19.1		1.00	ug/L			03/05/13 03:53	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 03:53	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,3,5-Trimethylbenzene	3.91		1.00	ug/L			03/05/13 03:53	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 03:53	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 03:53	1
2-Hexanone	ND		10.0	ug/L			03/05/13 03:53	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 03:53	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 03:53	1
Acetone	ND		50.0	ug/L			03/05/13 03:53	1
Benzene	1.54		1.00	ug/L			03/05/13 03:53	1
Bromobenzene	ND		1.00	ug/L			03/05/13 03:53	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 03:53	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 03:53	1
Bromoform	ND		1.00	ug/L			03/05/13 03:53	1
Bromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Carbon disulfide	1.31		1.00	ug/L			03/05/13 03:53	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 03:53	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Chloroethane	ND		1.00	ug/L			03/05/13 03:53	1
Chloroform	ND		1.00	ug/L			03/05/13 03:53	1
Chloromethane	ND		1.00	ug/L			03/05/13 03:53	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
Dibromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 03:53	1
Ethylbenzene	3.75		1.00	ug/L			03/05/13 03:53	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 03:53	1
Isopropylbenzene	2.75		1.00	ug/L			03/05/13 03:53	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 03:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 03:53	1
Naphthalene	452		25.0	ug/L			03/05/13 18:28	5
n-Butylbenzene	1.77		1.00	ug/L			03/05/13 03:53	1
N-Propylbenzene	1.18		1.00	ug/L			03/05/13 03:53	1
p-Isopropyltoluene	1.11		1.00	ug/L			03/05/13 03:53	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 03:53	1
Styrene	ND		1.00	ug/L			03/05/13 03:53	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 03:53	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 03:53	1
Toluene	ND		1.00	ug/L			03/05/13 03:53	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
Trichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 03:53	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 03:53	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		70 - 130		03/05/13 03:53	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 130		03/05/13 18:28	5
<i>4-Bromofluorobenzene (Surr)</i>	101		70 - 130		03/05/13 03:53	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		03/05/13 18:28	5
<i>Dibromofluoromethane (Surr)</i>	98		70 - 130		03/05/13 03:53	1
<i>Dibromofluoromethane (Surr)</i>	109		70 - 130		03/05/13 18:28	5
<i>Toluene-d8 (Surr)</i>	98		70 - 130		03/05/13 03:53	1
<i>Toluene-d8 (Surr)</i>	98		70 - 130		03/05/13 18:28	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1-Methylnaphthalene	242		20.0	ug/L		03/06/13 14:57	03/08/13 11:22	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Methylnaphthalene	55.5		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Acenaphthene	62.2		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dibenzofuran	12.9		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Fluoranthene	2.21		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Fluorene	22.0		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Naphthalene	386		20.0	ug/L		03/06/13 14:57	03/08/13 11:22	10
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Phenanthrene	33.7		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120	03/06/13 14:57	03/07/13 20:34	1
2-Fluorobiphenyl (Surr)	73		29 - 120	03/06/13 14:57	03/07/13 20:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	44		10 - 120	03/06/13 14:57	03/07/13 20:34	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/06/13 14:57	03/07/13 20:34	1
Phenol-d5 (Surr)	28		10 - 120	03/06/13 14:57	03/07/13 20:34	1
Terphenyl-d14 (Surr)	90		13 - 120	03/06/13 14:57	03/07/13 20:34	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	108		100	ug/L			03/05/13 23:27	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	93		50 - 150		03/05/13 23:27	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2810		400	ug/L		03/05/13 07:48	03/06/13 12:07	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	76		50 - 150		03/05/13 07:48	03/06/13 12:07	4	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3680		100	mg/L			03/06/13 18:41	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Chromium	0.0666		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Cobalt	0.0629		0.0200	mg/L		03/06/13 14:45	03/07/13 22:27	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Iron	0.183		0.100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Manganese	9.22		0.0150	mg/L		03/06/13 14:45	03/07/13 22:27	1
Nickel	0.0457		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Thallium	0.0107		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:27	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 16:12	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 16:12	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 16:12	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:12	1
2-Hexanone	ND		10.0	ug/L			03/05/13 16:12	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 16:12	1
Acetone	ND		50.0	ug/L			03/05/13 16:12	1
Benzene	ND		1.00	ug/L			03/05/13 16:12	1
Bromobenzene	ND		1.00	ug/L			03/05/13 16:12	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 16:12	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 16:12	1
Bromoform	ND		1.00	ug/L			03/05/13 16:12	1
Bromomethane	1.73		1.00	ug/L			03/05/13 16:12	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 16:12	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 16:12	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 16:12	1
Chloroethane	ND		1.00	ug/L			03/05/13 16:12	1
Chloroform	ND		1.00	ug/L			03/05/13 16:12	1
Chloromethane	2.48		1.00	ug/L			03/05/13 16:12	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
Dibromomethane	ND		1.00	ug/L			03/05/13 16:12	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 16:12	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 16:12	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 16:12	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 16:12	1
Naphthalene	ND		5.00	ug/L			03/05/13 16:12	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 16:12	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Styrene	ND		1.00	ug/L			03/05/13 16:12	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 16:12	1
Toluene	ND		1.00	ug/L			03/05/13 16:12	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
Trichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 16:12	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 16:12	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/05/13 16:12	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 16:12	1
Dibromofluoromethane (Surr)	101		70 - 130		03/05/13 16:12	1
Toluene-d8 (Surr)	96		70 - 130		03/05/13 16:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,2-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,3-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,4-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1-Methylnaphthalene	17.8		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4,5-Trichlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dimethylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dinitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,6-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Chloronaphthalene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Chlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Methylnaphthalene	2.75		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Nitrophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3 & 4 Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Nitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
Acenaphthylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Acenaphthene	2.81		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[a]anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[a]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[b]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[k]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-ethylhexyl) phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Butyl benzyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Carbazole	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Chrysene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Cresols	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dibenzofuran	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Diethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dimethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Di-n-butyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Di-n-octyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Fluorene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorobutadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachloroethane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Isophorone	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Naphthalene	29.1		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Nitrobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Pentachlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
Phenanthrene	2.92		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Phenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120			03/06/13 14:57	03/07/13 20:55	1
2-Fluorobiphenyl (Surr)	76		29 - 120			03/06/13 14:57	03/07/13 20:55	1
2-Fluorophenol (Surr)	53		10 - 120			03/06/13 14:57	03/07/13 20:55	1
Nitrobenzene-d5 (Surr)	76		27 - 120			03/06/13 14:57	03/07/13 20:55	1
Phenol-d5 (Surr)	32		10 - 120			03/06/13 14:57	03/07/13 20:55	1
Terphenyl-d14 (Surr)	90		13 - 120			03/06/13 14:57	03/07/13 20:55	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/05/13 23:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	91		50 - 150				03/05/13 23:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	460		118	ug/L		03/05/13 07:48	03/05/13 15:53	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	69		50 - 150			03/05/13 07:48	03/05/13 15:53	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	948		10.0	mg/L			03/06/13 19:00	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Chromium	0.0969		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:30	1
Copper	0.0123		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Iron	0.173		0.100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Lead	0.0233		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Manganese	0.124		0.0150	mg/L		03/06/13 14:45	03/07/13 22:30	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Vanadium	0.0979		0.0200	mg/L		03/06/13 14:45	03/07/13 22:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 04:47	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,4-Trimethylbenzene	29.1		1.00	ug/L			03/05/13 04:47	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 04:47	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,3,5-Trimethylbenzene	6.98		1.00	ug/L			03/05/13 04:47	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 04:47	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 04:47	1
2-Hexanone	ND		10.0	ug/L			03/05/13 04:47	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 04:47	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 04:47	1
Acetone	ND		50.0	ug/L			03/05/13 04:47	1
Benzene	1.35		1.00	ug/L			03/05/13 04:47	1
Bromobenzene	ND		1.00	ug/L			03/05/13 04:47	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 04:47	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 04:47	1
Bromoform	ND		1.00	ug/L			03/05/13 04:47	1
Bromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Carbon disulfide	1.01		1.00	ug/L			03/05/13 04:47	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 04:47	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Chloroethane	ND		1.00	ug/L			03/05/13 04:47	1
Chloroform	ND		1.00	ug/L			03/05/13 04:47	1
Chloromethane	ND		1.00	ug/L			03/05/13 04:47	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
Dibromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 04:47	1
Ethylbenzene	3.76		1.00	ug/L			03/05/13 04:47	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 04:47	1
Isopropylbenzene	2.76		1.00	ug/L			03/05/13 04:47	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 04:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 04:47	1
Naphthalene	657		50.0	ug/L			03/05/13 18:56	10
n-Butylbenzene	2.68		1.00	ug/L			03/05/13 04:47	1
N-Propylbenzene	1.10		1.00	ug/L			03/05/13 04:47	1
p-Isopropyltoluene	1.60		1.00	ug/L			03/05/13 04:47	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 04:47	1
Styrene	ND		1.00	ug/L			03/05/13 04:47	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 04:47	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 04:47	1
Toluene	ND		1.00	ug/L			03/05/13 04:47	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
Trichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 04:47	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 04:47	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	96		70 - 130		03/05/13 04:47	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		70 - 130		03/05/13 18:56	10
<i>4-Bromofluorobenzene (Surr)</i>	101		70 - 130		03/05/13 04:47	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		03/05/13 18:56	10
<i>Dibromofluoromethane (Surr)</i>	96		70 - 130		03/05/13 04:47	1
<i>Dibromofluoromethane (Surr)</i>	97		70 - 130		03/05/13 18:56	10
<i>Toluene-d8 (Surr)</i>	98		70 - 130		03/05/13 04:47	1
<i>Toluene-d8 (Surr)</i>	97		70 - 130		03/05/13 18:56	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1-Methylnaphthalene	462		20.8	ug/L		03/06/13 14:57	03/08/13 11:43	10
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Methylnaphthalene	62.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Acenaphthene	87.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dibenzofuran	15.5		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Fluoranthene	2.16		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Fluorene	26.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Naphthalene	619		20.8	ug/L		03/06/13 14:57	03/08/13 11:43	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
Phenanthrene	32.8		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120	03/06/13 14:57	03/07/13 21:16	1
2-Fluorobiphenyl (Surr)	73		29 - 120	03/06/13 14:57	03/07/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	48		10 - 120	03/06/13 14:57	03/07/13 21:16	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/06/13 14:57	03/07/13 21:16	1
Phenol-d5 (Surr)	28		10 - 120	03/06/13 14:57	03/07/13 21:16	1
Terphenyl-d14 (Surr)	90		13 - 120	03/06/13 14:57	03/07/13 21:16	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	133		100	ug/L			03/06/13 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/06/13 00:27	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3270		526	ug/L		03/05/13 07:48	03/06/13 12:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	60		50 - 150	03/05/13 07:48	03/06/13 12:24	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2790		50.0	mg/L			03/06/13 19:19	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Cobalt	0.0775		0.0200	mg/L		03/06/13 14:45	03/07/13 22:34	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Iron	0.412		0.100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Lead	0.00510		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Manganese	10.8		0.150	mg/L		03/06/13 14:45	03/08/13 10:42	10
Nickel	0.0529		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Thallium	0.0138		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 16:40	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 16:40	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 16:40	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:40	1
2-Hexanone	ND		10.0	ug/L			03/05/13 16:40	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 16:40	1
Acetone	ND		50.0	ug/L			03/05/13 16:40	1
Benzene	ND		1.00	ug/L			03/05/13 16:40	1
Bromobenzene	ND		1.00	ug/L			03/05/13 16:40	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 16:40	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 16:40	1
Bromoform	ND		1.00	ug/L			03/05/13 16:40	1
Bromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 16:40	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 16:40	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Chloroethane	ND		1.00	ug/L			03/05/13 16:40	1
Chloroform	ND		1.00	ug/L			03/05/13 16:40	1
Chloromethane	1.00		1.00	ug/L			03/05/13 16:40	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
Dibromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 16:40	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 16:40	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 16:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 16:40	1
Naphthalene	ND		5.00	ug/L			03/05/13 16:40	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 16:40	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Styrene	ND		1.00	ug/L			03/05/13 16:40	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 16:40	1
Toluene	ND		1.00	ug/L			03/05/13 16:40	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
Trichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 16:40	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 16:40	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130				03/05/13 16:40	1
4-Bromofluorobenzene (Surr)	99		70 - 130				03/05/13 16:40	1
Dibromofluoromethane (Surr)	98		70 - 130				03/05/13 16:40	1
Toluene-d8 (Surr)	97		70 - 130				03/05/13 16:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1-Methylnaphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Methylnaphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Acenaphthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dibenzofuran	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Fluorene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Naphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
Phenanthrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 120			03/06/13 14:57	03/07/13 21:37	1
2-Fluorobiphenyl (Surr)	36		29 - 120			03/06/13 14:57	03/07/13 21:37	1
2-Fluorophenol (Surr)	20		10 - 120			03/06/13 14:57	03/07/13 21:37	1
Nitrobenzene-d5 (Surr)	36		27 - 120			03/06/13 14:57	03/07/13 21:37	1
Phenol-d5 (Surr)	13		10 - 120			03/06/13 14:57	03/07/13 21:37	1
Terphenyl-d14 (Surr)	57		13 - 120			03/06/13 14:57	03/07/13 21:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 00:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>94</i>		<i>50 - 150</i>				<i>03/06/13 00:57</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		118	ug/L		03/05/13 07:48	03/05/13 16:25	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>68</i>		<i>50 - 150</i>			<i>03/05/13 07:48</i>	<i>03/05/13 16:25</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1160		50.0	mg/L			03/06/13 20:16	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Chromium	0.0605		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Cobalt	0.0700		0.0200	mg/L		03/06/13 14:45	03/07/13 22:51	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Iron	0.944		0.100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Manganese	7.34		0.0150	mg/L		03/06/13 14:45	03/07/13 22:51	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:51	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2
Date Collected: 02/28/13 00:00
Date Received: 03/01/13 13:21

Lab Sample ID: 490-20658-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 05:41	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 05:41	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 05:41	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 05:41	1
2-Hexanone	ND		10.0	ug/L			03/05/13 05:41	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 05:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 05:41	1
Acetone	530		50.0	ug/L			03/05/13 05:41	1
Benzene	ND		1.00	ug/L			03/05/13 05:41	1
Bromobenzene	ND		1.00	ug/L			03/05/13 05:41	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 05:41	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 05:41	1
Bromoform	ND		1.00	ug/L			03/05/13 05:41	1
Bromomethane	29.9		1.00	ug/L			03/05/13 05:41	1
Carbon disulfide	2.01		1.00	ug/L			03/05/13 05:41	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 05:41	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 05:41	1
Chloroethane	ND		1.00	ug/L			03/05/13 05:41	1
Chloroform	ND		1.00	ug/L			03/05/13 05:41	1
Chloromethane	47.5		1.00	ug/L			03/05/13 05:41	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
Dibromomethane	ND		1.00	ug/L			03/05/13 05:41	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 05:41	1
Ethylbenzene	3.30		1.00	ug/L			03/05/13 05:41	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 05:41	1
Isopropylbenzene	1.90		1.00	ug/L			03/05/13 05:41	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 05:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 05:41	1
Naphthalene	ND		5.00	ug/L			03/05/13 05:41	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 05:41	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
Styrene	ND		1.00	ug/L			03/05/13 05:41	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 05:41	1
Toluene	ND		1.00	ug/L			03/05/13 05:41	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
Trichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 05:41	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 05:41	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				03/05/13 05:41	1
4-Bromofluorobenzene (Surr)	100		70 - 130				03/05/13 05:41	1
Dibromofluoromethane (Surr)	99		70 - 130				03/05/13 05:41	1
Toluene-d8 (Surr)	97		70 - 130				03/05/13 05:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1-Methylnaphthalene	112		20.8	ug/L		03/06/13 14:57	03/08/13 12:04	10
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Methylnaphthalene	98.0		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Acenaphthene	2.24		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dibenzofuran	14.8		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Fluorene	13.2		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Naphthalene	210		20.8	ug/L		03/06/13 14:57	03/08/13 12:04	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
Phenanthrene	26.7		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	75		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>2-Fluorobiphenyl (Surr)</i>	70		29 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>2-Fluorophenol (Surr)</i>	44		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Nitrobenzene-d5 (Surr)</i>	71		27 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Phenol-d5 (Surr)</i>	31		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Terphenyl-d14 (Surr)</i>	80		13 - 120			03/06/13 14:57	03/07/13 21:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 01:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	96		50 - 150				03/06/13 01:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3710		471	ug/L		03/05/13 07:48	03/06/13 12:40	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	101		50 - 150			03/05/13 07:48	03/06/13 12:40	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	13200		500	mg/L			03/06/13 20:36	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Chromium	2.11		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Cobalt	ND		2.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Copper	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Iron	ND		10.0	mg/L		03/08/13 09:40	03/11/13 13:07	100
Lead	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Manganese	ND		1.50	mg/L		03/08/13 09:40	03/11/13 13:07	100
Nickel	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Selenium	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Thallium	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Vanadium	2.49		2.00	mg/L		03/08/13 09:40	03/11/13 13:07	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 17:07	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,4-Trimethylbenzene	3.09		1.00	ug/L			03/05/13 17:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 17:07	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,3,5-Trimethylbenzene	1.13		1.00	ug/L			03/05/13 17:07	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 17:07	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:07	1
2-Hexanone	ND		10.0	ug/L			03/05/13 17:07	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 17:07	1
Acetone	519		50.0	ug/L			03/05/13 17:07	1
Benzene	ND		1.00	ug/L			03/05/13 17:07	1
Bromobenzene	ND		1.00	ug/L			03/05/13 17:07	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 17:07	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 17:07	1
Bromoform	ND		1.00	ug/L			03/05/13 17:07	1
Bromomethane	29.8		1.00	ug/L			03/05/13 17:07	1
Carbon disulfide	1.91		1.00	ug/L			03/05/13 17:07	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 17:07	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 17:07	1
Chloroethane	ND		1.00	ug/L			03/05/13 17:07	1
Chloroform	ND		1.00	ug/L			03/05/13 17:07	1
Chloromethane	42.8		1.00	ug/L			03/05/13 17:07	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
Dibromomethane	ND		1.00	ug/L			03/05/13 17:07	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 17:07	1
Ethylbenzene	4.92		1.00	ug/L			03/05/13 17:07	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 17:07	1
Isopropylbenzene	2.50		1.00	ug/L			03/05/13 17:07	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 17:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 17:07	1
Naphthalene	43.0		5.00	ug/L			03/05/13 17:07	1
n-Butylbenzene	1.05		1.00	ug/L			03/05/13 17:07	1
N-Propylbenzene	1.22		1.00	ug/L			03/05/13 17:07	1
p-Isopropyltoluene	1.19		1.00	ug/L			03/05/13 17:07	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 17:07	1
Styrene	ND		1.00	ug/L			03/05/13 17:07	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 17:07	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 17:07	1
Toluene	ND		1.00	ug/L			03/05/13 17:07	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
Trichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 17:07	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 17:07	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		03/05/13 17:07	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 17:07	1
Dibromofluoromethane (Surr)	100		70 - 130		03/05/13 17:07	1
Toluene-d8 (Surr)	96		70 - 130		03/05/13 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1-Methylnaphthalene	83.7		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Methylnaphthalene	76.4		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Acenaphthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dibenzofuran	11.6		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Fluorene	10.5		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Naphthalene	195		20.8	ug/L		03/06/13 14:57	03/08/13 12:26	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
Phenanthrene	19.4		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 120			03/06/13 14:57	03/07/13 22:20	1
2-Fluorobiphenyl (Surr)	49		29 - 120			03/06/13 14:57	03/07/13 22:20	1
2-Fluorophenol (Surr)	25		10 - 120			03/06/13 14:57	03/07/13 22:20	1
Nitrobenzene-d5 (Surr)	50		27 - 120			03/06/13 14:57	03/07/13 22:20	1
Phenol-d5 (Surr)	21		10 - 120			03/06/13 14:57	03/07/13 22:20	1
Terphenyl-d14 (Surr)	51		13 - 120			03/06/13 14:57	03/07/13 22:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 01:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	90		50 - 150				03/06/13 01:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2490		471	ug/L		03/05/13 07:48	03/06/13 12:56	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	60		50 - 150			03/05/13 07:48	03/06/13 12:56	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	17800		500	mg/L			03/06/13 20:55	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Chromium	2.04		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Cobalt	ND		2.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Copper	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Iron	ND		10.0	mg/L		03/08/13 09:40	03/11/13 13:18	100
Lead	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Manganese	ND		1.50	mg/L		03/08/13 09:40	03/11/13 13:18	100
Nickel	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Selenium	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Thallium	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Vanadium	2.11		2.00	mg/L		03/08/13 09:40	03/11/13 13:18	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 06:35	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,4-Trimethylbenzene	1.32		1.00	ug/L			03/05/13 06:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 06:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 06:35	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 06:35	1
2-Hexanone	ND		10.0	ug/L			03/05/13 06:35	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 06:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 06:35	1
Acetone	50.8		50.0	ug/L			03/05/13 06:35	1
Benzene	1.32		1.00	ug/L			03/05/13 06:35	1
Bromobenzene	ND		1.00	ug/L			03/05/13 06:35	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 06:35	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 06:35	1
Bromoform	ND		1.00	ug/L			03/05/13 06:35	1
Bromomethane	2.79		1.00	ug/L			03/05/13 06:35	1
Carbon disulfide	8.36		1.00	ug/L			03/05/13 06:35	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 06:35	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 06:35	1
Chloroethane	ND		1.00	ug/L			03/05/13 06:35	1
Chloroform	ND		1.00	ug/L			03/05/13 06:35	1
Chloromethane	3.99		1.00	ug/L			03/05/13 06:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
Dibromomethane	ND		1.00	ug/L			03/05/13 06:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 06:35	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 06:35	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 06:35	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	14.6		5.00	ug/L			03/05/13 06:35	1
Naphthalene	189		5.00	ug/L			03/05/13 06:35	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 06:35	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Styrene	ND		1.00	ug/L			03/05/13 06:35	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 06:35	1
Toluene	ND		1.00	ug/L			03/05/13 06:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
Trichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 06:35	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 06:35	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		70 - 130		03/05/13 06:35	1
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130		03/05/13 06:35	1
<i>Dibromofluoromethane (Surr)</i>	99		70 - 130		03/05/13 06:35	1
<i>Toluene-d8 (Surr)</i>	97		70 - 130		03/05/13 06:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,2-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,3-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,4-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1-Methylnaphthalene	87.2		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4,5-Trichlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4,6-Trichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dimethylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dinitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,6-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Chloronaphthalene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Chlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Methylnaphthalene	20.5		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Nitrophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3,3'-Dichlorobenzidine	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3 & 4 Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4,6-Dinitro-2-methylphenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Bromophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Chloro-3-methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Chlorophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Nitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
Acenaphthylene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Acenaphthene	7.90		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[a]anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[a]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[b]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[g,h,i]perylene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[k]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-chloroethoxy)methane	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-chloroethyl)ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-ethylhexyl) phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
bis (2-chloroisopropyl) ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Butyl benzyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Carbazole	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Chrysene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Cresols	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dibenz(a,h)anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dibenzofuran	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Diethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dimethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Di-n-butyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Di-n-octyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Fluorene	6.74		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorobutadiene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorocyclopentadiene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachloroethane	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Indeno[1,2,3-cd]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Isophorone	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Naphthalene	146		20.6	ug/L		03/06/13 14:57	03/08/13 12:48	10
Nitrobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
N-Nitrosodi-n-propylamine	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Pentachlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
Phenanthrene	13.3		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Phenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 120			03/06/13 14:57	03/07/13 22:41	1
2-Fluorobiphenyl (Surr)	67		29 - 120			03/06/13 14:57	03/07/13 22:41	1
2-Fluorophenol (Surr)	41		10 - 120			03/06/13 14:57	03/07/13 22:41	1
Nitrobenzene-d5 (Surr)	65		27 - 120			03/06/13 14:57	03/07/13 22:41	1
Phenol-d5 (Surr)	26		10 - 120			03/06/13 14:57	03/07/13 22:41	1
Terphenyl-d14 (Surr)	83		13 - 120			03/06/13 14:57	03/07/13 22:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 02:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	92		50 - 150				03/06/13 02:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1060		200	ug/L		03/05/13 07:48	03/06/13 13:12	2
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	74		50 - 150			03/05/13 07:48	03/06/13 13:12	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8030		200	mg/L			03/06/13 21:14	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Chromium	0.0937		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Cobalt	0.284		0.0200	mg/L		03/06/13 14:45	03/07/13 22:54	1
Copper	0.164		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Iron	4.36		0.100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Lead	0.0124		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Manganese	5.64		0.0150	mg/L		03/06/13 14:45	03/07/13 22:54	1
Nickel	0.121		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Thallium	0.00580		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:54	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 01:38	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 01:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 01:38	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:38	1
2-Hexanone	ND		10.0	ug/L			03/05/13 01:38	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 01:38	1
Acetone	ND		50.0	ug/L			03/05/13 01:38	1
Benzene	ND		1.00	ug/L			03/05/13 01:38	1
Bromobenzene	ND		1.00	ug/L			03/05/13 01:38	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 01:38	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 01:38	1
Bromoform	ND		1.00	ug/L			03/05/13 01:38	1
Bromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 01:38	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 01:38	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Chloroethane	ND		1.00	ug/L			03/05/13 01:38	1
Chloroform	ND		1.00	ug/L			03/05/13 01:38	1
Chloromethane	ND		1.00	ug/L			03/05/13 01:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
Dibromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 01:38	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 01:38	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 01:38	1
Naphthalene	ND		5.00	ug/L			03/05/13 01:38	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 01:38	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Styrene	ND		1.00	ug/L			03/05/13 01:38	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 01:38	1
Toluene	ND		1.00	ug/L			03/05/13 01:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
Trichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 01:38	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 01:38	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/05/13 01:38	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 01:38	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 01:38	1
Toluene-d8 (Surr)	98		70 - 130		03/05/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 07:03	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,4-Trimethylbenzene	22.3		1.00	ug/L			03/05/13 07:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 07:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,3,5-Trimethylbenzene	1.48		1.00	ug/L			03/05/13 07:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 07:03	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:03	1
2-Hexanone	ND		10.0	ug/L			03/05/13 07:03	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 07:03	1
Acetone	210		50.0	ug/L			03/05/13 07:03	1
Benzene	ND		1.00	ug/L			03/05/13 07:03	1
Bromobenzene	ND		1.00	ug/L			03/05/13 07:03	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 07:03	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 07:03	1
Bromoform	ND		1.00	ug/L			03/05/13 07:03	1
Bromomethane	26.2		1.00	ug/L			03/05/13 07:03	1
Carbon disulfide	3.03		1.00	ug/L			03/05/13 07:03	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 07:03	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 07:03	1
Chloroethane	ND		1.00	ug/L			03/05/13 07:03	1
Chloroform	ND		1.00	ug/L			03/05/13 07:03	1
Chloromethane	26.9		1.00	ug/L			03/05/13 07:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
Dibromomethane	ND		1.00	ug/L			03/05/13 07:03	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 07:03	1
Ethylbenzene	8.19		1.00	ug/L			03/05/13 07:03	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 07:03	1
Isopropylbenzene	3.11		1.00	ug/L			03/05/13 07:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 07:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 07:03	1
Naphthalene	309		25.0	ug/L			03/05/13 19:23	5
n-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
N-Propylbenzene	1.73		1.00	ug/L			03/05/13 07:03	1
p-Isopropyltoluene	2.60		1.00	ug/L			03/05/13 07:03	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
Styrene	ND		1.00	ug/L			03/05/13 07:03	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 07:03	1
Toluene	ND		1.00	ug/L			03/05/13 07:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
Trichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 07:03	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 07:03	1
Xylenes, Total	5.79		3.00	ug/L			03/05/13 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/05/13 07:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		03/05/13 19:23	5
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 07:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 19:23	5
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 07:03	1
Dibromofluoromethane (Surr)	97		70 - 130		03/05/13 19:23	5
Toluene-d8 (Surr)	98		70 - 130		03/05/13 07:03	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 19:23	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,2-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,3-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,4-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1-Methylnaphthalene	190		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
2,4,5-Trichlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dimethylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dinitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,6-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Chloronaphthalene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Chlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Methylnaphthalene	177		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
2-Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Nitrophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3 & 4 Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chloroaniline	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Nitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
Acenaphthylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Acenaphthene	44.5		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[a]anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[a]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[b]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[k]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-ethylhexyl) phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Butyl benzyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Carbazole	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Chrysene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Cresols	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dibenzofuran	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Diethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dimethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Di-n-butyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Di-n-octyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Fluorene	17.4		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorobutadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachloroethane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Isophorone	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Naphthalene	231		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
Nitrobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Pentachlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
Phenanthrene	28.7		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Phenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 120			03/06/13 14:57	03/07/13 23:02	1
2-Fluorobiphenyl (Surr)	61		29 - 120			03/06/13 14:57	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	36		10 - 120	03/06/13 14:57	03/07/13 23:02	1
Nitrobenzene-d5 (Surr)	60		27 - 120	03/06/13 14:57	03/07/13 23:02	1
Phenol-d5 (Surr)	24		10 - 120	03/06/13 14:57	03/07/13 23:02	1
Terphenyl-d14 (Surr)	73		13 - 120	03/06/13 14:57	03/07/13 23:02	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	120		100	ug/L			03/06/13 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/06/13 02:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2460		471	ug/L		03/05/13 07:48	03/06/13 13:28	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 150	03/05/13 07:48	03/06/13 13:28	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8670		100	mg/L			03/06/13 21:34	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0360		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Chromium	0.00830		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Cobalt	0.220		0.0200	mg/L		03/06/13 14:45	03/07/13 22:58	1
Copper	0.0119		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Iron	ND		0.100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Lead	0.0293		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Manganese	5.17		0.0150	mg/L		03/06/13 14:45	03/07/13 22:58	1
Nickel	0.0652		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Selenium	0.0178		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 07:30	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,4-Trimethylbenzene	21.1		1.00	ug/L			03/05/13 07:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 07:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,3,5-Trimethylbenzene	2.73		1.00	ug/L			03/05/13 07:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 07:30	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:30	1
2-Hexanone	ND		10.0	ug/L			03/05/13 07:30	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:30	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 07:30	1
Acetone	ND		50.0	ug/L			03/05/13 07:30	1
Benzene	27.4		1.00	ug/L			03/05/13 07:30	1
Bromobenzene	ND		1.00	ug/L			03/05/13 07:30	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 07:30	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 07:30	1
Bromoform	ND		1.00	ug/L			03/05/13 07:30	1
Bromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Carbon disulfide	11.7		1.00	ug/L			03/05/13 07:30	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 07:30	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Chloroethane	ND		1.00	ug/L			03/05/13 07:30	1
Chloroform	ND		1.00	ug/L			03/05/13 07:30	1
Chloromethane	ND		1.00	ug/L			03/05/13 07:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
Dibromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 07:30	1
Ethylbenzene	26.6		1.00	ug/L			03/05/13 07:30	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 07:30	1
Isopropylbenzene	7.44		1.00	ug/L			03/05/13 07:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 07:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 07:30	1
Naphthalene	732		50.0	ug/L			03/05/13 19:50	10
n-Butylbenzene	2.69		1.00	ug/L			03/05/13 07:30	1
N-Propylbenzene	4.80		1.00	ug/L			03/05/13 07:30	1
p-Isopropyltoluene	1.84		1.00	ug/L			03/05/13 07:30	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 07:30	1
Styrene	ND		1.00	ug/L			03/05/13 07:30	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 07:30	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 07:30	1
Toluene	ND		1.00	ug/L			03/05/13 07:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
Trichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 07:30	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 07:30	1
Xylenes, Total	10.1		3.00	ug/L			03/05/13 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/05/13 07:30	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		03/05/13 19:50	10
4-Bromofluorobenzene (Surr)	101		70 - 130		03/05/13 07:30	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 19:50	10
Dibromofluoromethane (Surr)	97		70 - 130		03/05/13 07:30	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 19:50	10
Toluene-d8 (Surr)	98		70 - 130		03/05/13 07:30	1
Toluene-d8 (Surr)	98		70 - 130		03/05/13 19:50	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1-Methylnaphthalene	424		20.0	ug/L		03/06/13 14:57	03/08/13 14:13	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Methylnaphthalene	59.3		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Acenaphthene	91.1		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Carbazole	15.4		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dibenzofuran	29.6		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Fluorene	39.3		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Naphthalene	409		20.0	ug/L		03/06/13 14:57	03/08/13 14:13	10
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Phenanthrene	39.7		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Pyrene	2.02		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 120			03/06/13 14:57	03/07/13 23:23	1
2-Fluorobiphenyl (Surr)	63		29 - 120			03/06/13 14:57	03/07/13 23:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	35		10 - 120	03/06/13 14:57	03/07/13 23:23	1
Nitrobenzene-d5 (Surr)	61		27 - 120	03/06/13 14:57	03/07/13 23:23	1
Phenol-d5 (Surr)	21		10 - 120	03/06/13 14:57	03/07/13 23:23	1
Terphenyl-d14 (Surr)	73		13 - 120	03/06/13 14:57	03/07/13 23:23	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	276		100	ug/L			03/06/13 03:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	92		50 - 150		03/06/13 03:29	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4770		526	ug/L		03/05/13 07:48	03/06/13 13:44	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	84		50 - 150		03/05/13 07:48	03/06/13 13:44	5	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	639		10.0	mg/L			03/06/13 21:53	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Chromium	0.0190		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:02	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Iron	16.7		0.100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Manganese	3.88		0.0150	mg/L		03/06/13 14:45	03/07/13 23:02	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 17:34	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,4-Trimethylbenzene	3.65		1.00	ug/L			03/05/13 17:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 17:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,3,5-Trimethylbenzene	1.84		1.00	ug/L			03/05/13 17:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 17:34	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:34	1
2-Hexanone	ND		10.0	ug/L			03/05/13 17:34	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 17:34	1
Acetone	ND		50.0	ug/L			03/05/13 17:34	1
Benzene	ND		1.00	ug/L			03/05/13 17:34	1
Bromobenzene	ND		1.00	ug/L			03/05/13 17:34	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 17:34	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 17:34	1
Bromoform	ND		1.00	ug/L			03/05/13 17:34	1
Bromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 17:34	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 17:34	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Chloroethane	ND		1.00	ug/L			03/05/13 17:34	1
Chloroform	ND		1.00	ug/L			03/05/13 17:34	1
Chloromethane	ND		1.00	ug/L			03/05/13 17:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
Dibromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 17:34	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 17:34	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 17:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 17:34	1
Naphthalene	15.1		5.00	ug/L			03/05/13 17:34	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 17:34	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Styrene	ND		1.00	ug/L			03/05/13 17:34	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 17:34	1
Toluene	ND		1.00	ug/L			03/05/13 17:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
Trichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 17:34	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 17:34	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130				03/05/13 17:34	1
4-Bromofluorobenzene (Surr)	96		70 - 130				03/05/13 17:34	1
Dibromofluoromethane (Surr)	98		70 - 130				03/05/13 17:34	1
Toluene-d8 (Surr)	96		70 - 130				03/05/13 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,2-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,3-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,4-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1-Methylnaphthalene	5.23		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4,5-Trichlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4,6-Trichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dimethylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dinitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,6-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Chloronaphthalene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Chlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Nitrophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3,3'-Dichlorobenzidine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3 & 4 Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4,6-Dinitro-2-methylphenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Bromophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Chloro-3-methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Chlorophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Nitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
Acenaphthylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Acenaphthene	10.7		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[a]anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[a]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[b]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[g,h,i]perylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[k]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-chloroethoxy)methane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-chloroethyl)ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-ethylhexyl) phthalate	113		20.4	ug/L		03/06/13 14:57	03/08/13 14:34	2
bis (2-chloroisopropyl) ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Butyl benzyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Carbazole	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Chrysene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Cresols	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dibenz(a,h)anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dibenzofuran	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Diethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dimethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Di-n-butyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Di-n-octyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Fluorene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorobutadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorocyclopentadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachloroethane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Indeno[1,2,3-cd]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Isophorone	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Naphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Nitrobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
N-Nitrosodi-n-propylamine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Pentachlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
Phenanthrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Phenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Pyrene	2.65		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120			03/06/13 14:57	03/07/13 23:44	1
2-Fluorobiphenyl (Surr)	76		29 - 120			03/06/13 14:57	03/07/13 23:44	1
2-Fluorophenol (Surr)	37		10 - 120			03/06/13 14:57	03/07/13 23:44	1
Nitrobenzene-d5 (Surr)	68		27 - 120			03/06/13 14:57	03/07/13 23:44	1
Phenol-d5 (Surr)	24		10 - 120			03/06/13 14:57	03/07/13 23:44	1
Terphenyl-d14 (Surr)	87		13 - 120			03/06/13 14:57	03/07/13 23:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 03:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	93		50 - 150				03/06/13 03:59	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	566		100	ug/L		03/05/13 07:48	03/05/13 18:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	77		50 - 150			03/05/13 07:48	03/05/13 18:51	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	35.2		1.00	mg/L			03/08/13 02:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:05	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Iron	0.640		0.100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Manganese	0.953		0.0150	mg/L		03/06/13 14:45	03/07/13 23:05	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 08:24	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,4-Trimethylbenzene	26.9		1.00	ug/L			03/05/13 08:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 08:24	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,3,5-Trimethylbenzene	4.17		1.00	ug/L			03/05/13 08:24	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 08:24	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 08:24	1
2-Hexanone	ND		10.0	ug/L			03/05/13 08:24	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 08:24	1
Acetone	ND		50.0	ug/L			03/05/13 08:24	1
Benzene	9.12		1.00	ug/L			03/05/13 08:24	1
Bromobenzene	ND		1.00	ug/L			03/05/13 08:24	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 08:24	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 08:24	1
Bromoform	ND		1.00	ug/L			03/05/13 08:24	1
Bromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Carbon disulfide	10.2		1.00	ug/L			03/05/13 08:24	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 08:24	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Chloroethane	ND		1.00	ug/L			03/05/13 08:24	1
Chloroform	ND		1.00	ug/L			03/05/13 08:24	1
Chloromethane	ND		1.00	ug/L			03/05/13 08:24	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
Dibromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 08:24	1
Ethylbenzene	21.1		1.00	ug/L			03/05/13 08:24	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 08:24	1
Isopropylbenzene	6.69		1.00	ug/L			03/05/13 08:24	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 08:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 08:24	1
Naphthalene	671		50.0	ug/L			03/05/13 20:17	10
n-Butylbenzene	2.35		1.00	ug/L			03/05/13 08:24	1
N-Propylbenzene	3.91		1.00	ug/L			03/05/13 08:24	1
p-Isopropyltoluene	2.07		1.00	ug/L			03/05/13 08:24	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 08:24	1
Styrene	ND		1.00	ug/L			03/05/13 08:24	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 08:24	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 08:24	1
Toluene	ND		1.00	ug/L			03/05/13 08:24	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
Trichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 08:24	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 08:24	1
Xylenes, Total	12.2		3.00	ug/L			03/05/13 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/05/13 08:24	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		03/05/13 20:17	10
4-Bromofluorobenzene (Surr)	99		70 - 130		03/05/13 08:24	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 20:17	10
Dibromofluoromethane (Surr)	95		70 - 130		03/05/13 08:24	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 20:17	10
Toluene-d8 (Surr)	97		70 - 130		03/05/13 08:24	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 20:17	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,2-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,3-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,4-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1-Methylnaphthalene	340		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
2,4,5-Trichlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4,6-Trichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dimethylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dinitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,6-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Chloronaphthalene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Chlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Methylnaphthalene	200		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
2-Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Nitrophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3,3'-Dichlorobenzidine	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3 & 4 Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Bromophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chloro-3-methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chlorophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chloroaniline	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Nitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
Acenaphthylene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Acenaphthene	59.1		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[a]anthracene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[a]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[b]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[g,h,i]perylene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[k]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Anthracene	2.73		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-chloroethoxy)methane	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-chloroethyl)ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-ethylhexyl) phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
bis (2-chloroisopropyl) ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Butyl benzyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Carbazole	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Chrysene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Cresols	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dibenz(a,h)anthracene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dibenzofuran	14.0		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Diethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dimethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Di-n-butyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Di-n-octyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Fluoranthene	2.27		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Fluorene	21.1		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorobutadiene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorocyclopentadiene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachloroethane	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Indeno[1,2,3-cd]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Isophorone	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Naphthalene	653		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
Nitrobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
N-Nitrosodi-n-propylamine	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Pentachlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
Phenanthrene	27.8		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Phenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Pyrene	3.46		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 120			03/06/13 14:57	03/08/13 00:05	1
2-Fluorobiphenyl (Surr)	62		29 - 120			03/06/13 14:57	03/08/13 00:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	36		10 - 120	03/06/13 14:57	03/08/13 00:05	1
Nitrobenzene-d5 (Surr)	60		27 - 120	03/06/13 14:57	03/08/13 00:05	1
Phenol-d5 (Surr)	24		10 - 120	03/06/13 14:57	03/08/13 00:05	1
Terphenyl-d14 (Surr)	72		13 - 120	03/06/13 14:57	03/08/13 00:05	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	193		100	ug/L			03/06/13 04:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	88		50 - 150		03/06/13 04:29	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3820		500	ug/L		03/05/13 07:48	03/06/13 14:00	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	92		50 - 150		03/05/13 07:48	03/06/13 14:00	5	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	979		50.0	mg/L			03/06/13 22:31	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0107		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Chromium	0.0152		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:09	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Iron	8.95		0.100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Manganese	2.10		0.0150	mg/L		03/06/13 14:45	03/07/13 23:09	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Vanadium	0.0430		0.0200	mg/L		03/06/13 14:45	03/07/13 23:09	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-62691/7

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 01:11	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 01:11	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 01:11	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:11	1
2-Hexanone	ND		10.0	ug/L			03/05/13 01:11	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:11	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 01:11	1
Acetone	ND		50.0	ug/L			03/05/13 01:11	1
Benzene	ND		1.00	ug/L			03/05/13 01:11	1
Bromobenzene	ND		1.00	ug/L			03/05/13 01:11	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 01:11	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 01:11	1
Bromoform	ND		1.00	ug/L			03/05/13 01:11	1
Bromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 01:11	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 01:11	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Chloroethane	ND		1.00	ug/L			03/05/13 01:11	1
Chloroform	ND		1.00	ug/L			03/05/13 01:11	1
Chloromethane	ND		1.00	ug/L			03/05/13 01:11	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
Dibromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 01:11	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 01:11	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 01:11	1



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62691/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 01:11	1
Methylene Chloride	ND		5.00	ug/L			03/05/13 01:11	1
Naphthalene	ND		5.00	ug/L			03/05/13 01:11	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 01:11	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Styrene	ND		1.00	ug/L			03/05/13 01:11	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 01:11	1
Toluene	ND		1.00	ug/L			03/05/13 01:11	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
Trichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 01:11	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 01:11	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 01:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3		3/ 5/ 5/ 31911	1
4-8roB ortho/rof enbene (Surr)	131		73 - 1/3		3/ 5/ 5/ 31911	1
Dif roB ortho/roB ethane (Surr)	13:		73 - 1/3		3/ 5/ 5/ 31911	1
Toluene-dz (Surr)	0z		73 - 1/3		3/ 5/ 5/ 31911	1

Lab Sample ID: LCS 490-62691/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.15		ug/L		94	74 - 135
1,1,1-Trichloroethane	50.0	45.90		ug/L		92	78 - 135
1,1,2,2-Tetrachloroethane	50.0	46.76		ug/L		94	69 - 131
1,1,2-Trichloroethane	50.0	44.83		ug/L		90	80 - 124
1,1-Dichloroethane	50.0	47.47		ug/L		95	78 - 125
Diisopropyl ether	50.0	43.72		ug/L		87	61 - 142
1,1-Dichloroethene	50.0	51.74		ug/L		103	79 - 124
1,1-Dichloropropene	50.0	44.54		ug/L		89	80 - 122
1,2,3-Trichlorobenzene	50.0	52.21		ug/L		104	62 - 133
1,2,3-Trichloropropane	50.0	48.60		ug/L		97	70 - 131
1,2,4-Trichlorobenzene	50.0	53.35		ug/L		107	63 - 133
1,2,4-Trimethylbenzene	50.0	49.45		ug/L		99	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	46.83		ug/L		94	54 - 125
1,2-Dibromoethane (EDB)	50.0	48.28		ug/L		97	80 - 129
1,2-Dichlorobenzene	50.0	48.52		ug/L		97	80 - 121
1,2-Dichloroethane	50.0	46.45		ug/L		93	77 - 121
1,2-Dichloropropane	50.0	44.69		ug/L		89	75 - 120
1,3,5-Trimethylbenzene	50.0	49.37		ug/L		99	77 - 127
1,3-Dichlorobenzene	50.0	48.81		ug/L		98	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62691/3

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,3-Dichloropropane	50.0	45.91		ug/L		92	80 - 125
1,4-Dichlorobenzene	50.0	48.34		ug/L		97	80 - 120
2,2-Dichloropropane	50.0	41.58		ug/L		83	43 - 161
2-Butanone (MEK)	250	247.9		ug/L		99	62 - 133
2-Chlorotoluene	50.0	48.28		ug/L		97	75 - 126
2-Hexanone	250	248.0		ug/L		99	60 - 142
4-Chlorotoluene	50.0	49.73		ug/L		99	75 - 130
4-Methyl-2-pentanone (MIBK)	250	235.4		ug/L		94	60 - 137
Acetone	250	299.5		ug/L		120	54 - 145
Benzene	50.0	46.69		ug/L		93	80 - 121
Bromobenzene	50.0	49.28		ug/L		99	68 - 130
Bromochloromethane	50.0	45.71		ug/L		91	78 - 129
Bromodichloromethane	50.0	50.00		ug/L		100	75 - 129
Bromoform	50.0	46.93		ug/L		94	46 - 145
Bromomethane	50.0	44.75		ug/L		89	41 - 150
Carbon disulfide	50.0	42.58		ug/L		85	77 - 126
Carbon tetrachloride	50.0	45.73		ug/L		91	64 - 147
Chlorobenzene	50.0	46.59		ug/L		93	80 - 120
Chlorodibromomethane	50.0	48.80		ug/L		98	69 - 133
Chloroethane	50.0	45.45		ug/L		91	72 - 120
Chloroform	50.0	45.07		ug/L		90	73 - 129
Chloromethane	50.0	38.33		ug/L		77	12 - 150
cis-1,2-Dichloroethene	50.0	45.12		ug/L		90	76 - 125
cis-1,3-Dichloropropene	50.0	46.87		ug/L		94	74 - 140
Dibromomethane	50.0	47.22		ug/L		94	71 - 125
Dichlorodifluoromethane	50.0	41.98		ug/L		84	37 - 127
Ethylbenzene	50.0	46.71		ug/L		93	80 - 130
Hexachlorobutadiene	50.0	47.00		ug/L		94	49 - 146
Isopropylbenzene	50.0	46.70		ug/L		93	80 - 141
Methyl tert-butyl ether	50.0	44.84		ug/L		90	72 - 133
Methylene Chloride	50.0	51.26		ug/L		103	79 - 123
Naphthalene	50.0	52.06		ug/L		104	62 - 138
n-Butylbenzene	50.0	51.92		ug/L		104	68 - 132
N-Propylbenzene	50.0	49.40		ug/L		99	75 - 129
p-Isopropyltoluene	50.0	49.54		ug/L		99	75 - 128
sec-Butylbenzene	50.0	50.92		ug/L		102	76 - 128
Styrene	50.0	47.30		ug/L		95	80 - 127
tert-Butylbenzene	50.0	49.35		ug/L		99	76 - 126
Tetrachloroethene	50.0	45.87		ug/L		92	80 - 126
Toluene	50.0	46.74		ug/L		93	80 - 126
trans-1,2-Dichloroethene	50.0	49.55		ug/L		99	79 - 126
trans-1,3-Dichloropropene	50.0	46.22		ug/L		92	63 - 134
Trichloroethene	50.0	45.11		ug/L		90	80 - 123
Trichlorofluoromethane	50.0	44.72		ug/L		89	65 - 124
Vinyl chloride	50.0	44.85		ug/L		90	68 - 120
Xylenes, Total	150	138.0		ug/L		92	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62691/3

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3
4-8roB orfluorof enbene (Surr)	136		73 - 1/3
Dif roB orfluoroB ethane (Surr)	06		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: LCSD 490-62691/4

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.16		ug/L		96	74 - 135	2	16
1,1,1-Trichloroethane	50.0	48.98		ug/L		98	78 - 135	7	17
1,1,1,2-Tetrachloroethane	50.0	47.55		ug/L		95	69 - 131	2	20
1,1,2-Trichloroethane	50.0	45.34		ug/L		91	80 - 124	1	15
1,1-Dichloroethane	50.0	50.54		ug/L		101	78 - 125	6	17
Diisopropyl ether	50.0	45.90		ug/L		92	61 - 142	5	50
1,1-Dichloroethene	50.0	55.57		ug/L		111	79 - 124	7	17
1,1-Dichloropropene	50.0	47.52		ug/L		95	80 - 122	6	17
1,2,3-Trichlorobenzene	50.0	52.80		ug/L		106	62 - 133	1	25
1,2,3-Trichloropropane	50.0	48.65		ug/L		97	70 - 131	0	19
1,2,4-Trichlorobenzene	50.0	54.29		ug/L		109	63 - 133	2	19
1,2,4-Trimethylbenzene	50.0	50.44		ug/L		101	77 - 126	2	16
1,2-Dibromo-3-Chloropropane	50.0	46.50		ug/L		93	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	49.16		ug/L		98	80 - 129	2	15
1,2-Dichlorobenzene	50.0	49.65		ug/L		99	80 - 121	2	15
1,2-Dichloroethane	50.0	44.32		ug/L		89	77 - 121	5	17
1,2-Dichloropropane	50.0	46.48		ug/L		93	75 - 120	4	17
1,3,5-Trimethylbenzene	50.0	50.84		ug/L		102	77 - 127	3	17
1,3-Dichlorobenzene	50.0	50.08		ug/L		100	80 - 122	3	15
1,3-Dichloropropane	50.0	46.47		ug/L		93	80 - 125	1	14
1,4-Dichlorobenzene	50.0	49.37		ug/L		99	80 - 120	2	15
2,2-Dichloropropane	50.0	43.95		ug/L		88	43 - 161	6	18
2-Butanone (MEK)	250	254.2		ug/L		102	62 - 133	3	19
2-Chlorotoluene	50.0	49.79		ug/L		100	75 - 126	3	17
2-Hexanone	250	246.8		ug/L		99	60 - 142	0	15
4-Chlorotoluene	50.0	51.89		ug/L		104	75 - 130	4	18
4-Methyl-2-pentanone (MIBK)	250	235.9		ug/L		94	60 - 137	0	17
Acetone	250	306.1		ug/L		122	54 - 145	2	21
Benzene	50.0	45.46		ug/L		91	80 - 121	3	17
Bromobenzene	50.0	50.28		ug/L		101	68 - 130	2	20
Bromochloromethane	50.0	48.01		ug/L		96	78 - 129	5	17
Bromodichloromethane	50.0	51.84		ug/L		104	75 - 129	4	18
Bromoform	50.0	47.30		ug/L		95	46 - 145	1	16
Bromomethane	50.0	48.76		ug/L		98	41 - 150	9	50
Carbon disulfide	50.0	45.42		ug/L		91	77 - 126	6	21
Carbon tetrachloride	50.0	48.73		ug/L		97	64 - 147	6	19
Chlorobenzene	50.0	48.28		ug/L		97	80 - 120	4	14
Chlorodibromomethane	50.0	49.28		ug/L		99	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-62691/4

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	48.71		ug/L		97	72 - 120	7	20	
Chloroform	50.0	47.51		ug/L		95	73 - 129	5	18	
Chloromethane	50.0	40.02		ug/L		80	12 - 150	4	31	
cis-1,2-Dichloroethene	50.0	48.22		ug/L		96	76 - 125	7	17	
cis-1,3-Dichloropropene	50.0	47.83		ug/L		96	74 - 140	2	15	
Dibromomethane	50.0	49.02		ug/L		98	71 - 125	4	16	
Dichlorodifluoromethane	50.0	44.58		ug/L		89	37 - 127	6	18	
Ethylbenzene	50.0	48.16		ug/L		96	80 - 130	3	15	
Hexachlorobutadiene	50.0	48.82		ug/L		98	49 - 146	4	23	
Isopropylbenzene	50.0	48.23		ug/L		96	80 - 141	3	16	
Methyl tert-butyl ether	50.0	46.04		ug/L		92	72 - 133	3	16	
Methylene Chloride	50.0	54.58		ug/L		109	79 - 123	6	17	
Naphthalene	50.0	52.03		ug/L		104	62 - 138	0	26	
n-Butylbenzene	50.0	53.68		ug/L		107	68 - 132	3	18	
N-Propylbenzene	50.0	51.09		ug/L		102	75 - 129	3	17	
p-Isopropyltoluene	50.0	50.90		ug/L		102	75 - 128	3	16	
sec-Butylbenzene	50.0	52.51		ug/L		105	76 - 128	3	16	
Styrene	50.0	48.58		ug/L		97	80 - 127	3	24	
tert-Butylbenzene	50.0	51.13		ug/L		102	76 - 126	4	16	
Tetrachloroethene	50.0	47.80		ug/L		96	80 - 126	4	16	
Toluene	50.0	48.46		ug/L		97	80 - 126	4	15	
trans-1,2-Dichloroethene	50.0	53.23		ug/L		106	79 - 126	7	16	
trans-1,3-Dichloropropene	50.0	46.81		ug/L		94	63 - 134	1	14	
Trichloroethene	50.0	47.51		ug/L		95	80 - 123	5	17	
Trichlorofluoromethane	50.0	47.65		ug/L		95	65 - 124	6	18	
Vinyl chloride	50.0	48.14		ug/L		96	68 - 120	7	17	
Xylenes, Total	150	142.0		ug/L		95	80 - 132	3	15	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	02		73 - 1/3
4-8roB orthoB ethene (Surr)	13		73 - 1/3
Dif roB orthoB ethane (Surr)	00		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: 490-20658-9 MS

Matrix: Water

Analysis Batch: 62691

Client Sample ID: OR-10W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1,1,2-Tetrachloroethane	ND		50.0	55.90		ug/L		112	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	57.49		ug/L		115	76 - 149	
1,1,1,2,2-Tetrachloroethane	ND		50.0	55.00		ug/L		110	56 - 143	
1,1,1,2-Trichloroethane	ND		50.0	53.06		ug/L		106	74 - 134	
1,1-Dichloroethane	ND		50.0	57.62		ug/L		114	71 - 139	
Diisopropyl ether	ND		50.0	51.87		ug/L		104	10 - 200	
1,1-Dichloroethene	ND		50.0	65.70		ug/L		131	70 - 142	
1,1-Dichloropropene	ND		50.0	56.28		ug/L		113	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	60.50		ug/L		121	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MS

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	55.80		ug/L		112	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	62.95		ug/L		126	60 - 136
1,2,4-Trimethylbenzene	1.32		50.0	58.39		ug/L		114	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	53.93		ug/L		108	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	57.22		ug/L		114	75 - 137
1,2-Dichlorobenzene	ND		50.0	56.16		ug/L		112	79 - 128
1,2-Dichloroethane	ND		50.0	54.92		ug/L		110	64 - 136
1,2-Dichloropropane	ND		50.0	52.61		ug/L		105	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	57.20		ug/L		114	69 - 139
1,3-Dichlorobenzene	ND		50.0	57.23		ug/L		114	77 - 131
1,3-Dichloropropane	ND		50.0	54.77		ug/L		110	72 - 134
1,4-Dichlorobenzene	ND		50.0	56.37		ug/L		113	78 - 126
2,2-Dichloropropane	ND		50.0	55.44		ug/L		111	37 - 175
2-Butanone (MEK)	ND		250	290.3		ug/L		116	50 - 138
2-Chlorotoluene	ND		50.0	56.37		ug/L		113	67 - 138
2-Hexanone	ND		250	325.0		ug/L		130	50 - 150
4-Chlorotoluene	ND		50.0	58.16		ug/L		116	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	311.8		ug/L		125	50 - 147
Acetone	50.8		250	361.0		ug/L		124	45 - 141
Benzene	1.32		50.0	56.88		ug/L		111	75 - 133
Bromobenzene	ND		50.0	57.64		ug/L		115	60 - 138
Bromochloromethane	ND		50.0	54.59		ug/L		109	67 - 139
Bromodichloromethane	ND		50.0	59.81		ug/L		120	70 - 140
Bromoform	ND		50.0	55.70		ug/L		111	42 - 147
Bromomethane	2.79		50.0	56.61		ug/L		108	16 - 163
Carbon disulfide	8.36		50.0	61.49		ug/L		106	48 - 152
Carbon tetrachloride	ND		50.0	58.31		ug/L		117	62 - 164
Chlorobenzene	ND		50.0	55.90		ug/L		112	80 - 129
Chlorodibromomethane	ND		50.0	58.39		ug/L		117	66 - 140
Chloroethane	ND		50.0	52.35		ug/L		105	58 - 137
Chloroform	ND		50.0	53.78		ug/L		108	66 - 138
Chloromethane	3.99		50.0	44.99		ug/L		82	10 - 169
cis-1,2-Dichloroethene	ND		50.0	54.65		ug/L		109	68 - 138
cis-1,3-Dichloropropene	ND		50.0	56.98		ug/L		114	71 - 141
Dibromomethane	ND		50.0	56.00		ug/L		112	58 - 140
Dichlorodifluoromethane	ND		50.0	45.57		ug/L		91	40 - 127
Ethylbenzene	ND		50.0	56.39		ug/L		112	79 - 139
Hexachlorobutadiene	ND		50.0	58.87		ug/L		118	45 - 155
Isopropylbenzene	ND		50.0	56.89		ug/L		113	80 - 153
Methyl tert-butyl ether	ND		50.0	54.79		ug/L		110	66 - 141
Methylene Chloride	14.6		50.0	76.18		ug/L		123	64 - 139
Naphthalene	189		50.0	264.4	E F	ug/L		150	55 - 140
n-Butylbenzene	ND		50.0	62.43		ug/L		125	66 - 141
N-Propylbenzene	ND		50.0	58.12		ug/L		116	69 - 142
p-Isopropyltoluene	ND		50.0	58.53		ug/L		117	71 - 137
sec-Butylbenzene	ND		50.0	60.04		ug/L		120	73 - 138
Styrene	ND		50.0	55.19		ug/L		110	61 - 148
tert-Butylbenzene	ND		50.0	57.80		ug/L		116	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MS

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	57.00		ug/L		114	72 - 145
Toluene	ND		50.0	56.02		ug/L		112	75 - 136
trans-1,2-Dichloroethene	ND		50.0	61.02		ug/L		122	66 - 143
trans-1,3-Dichloropropene	ND		50.0	56.15		ug/L		112	59 - 135
Trichloroethene	ND		50.0	54.92		ug/L		110	73 - 144
Trichlorofluoromethane	ND		50.0	53.59		ug/L		107	58 - 139
Vinyl chloride	ND		50.0	51.18		ug/L		102	56 - 129
Xylenes, Total	ND		150	164.1		ug/L		109	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	131		73 - 1/3
4-Bromofluorobenzene (Surr)	13/		73 - 1/3
Difluorobenzene (Surr)	0z		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

Lab Sample ID: 490-20658-9 MSD

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	48.98		ug/L		98	73 - 141	13	16
1,1,1-Trichloroethane	ND		50.0	50.50		ug/L		101	76 - 149	13	17
1,1,1,2-Tetrachloroethane	ND		50.0	48.38		ug/L		97	56 - 143	13	20
1,1,2-Trichloroethane	ND		50.0	46.70		ug/L		93	74 - 134	13	15
1,1-Dichloroethane	ND		50.0	50.83		ug/L		100	71 - 139	13	17
Diisopropyl ether	ND		50.0	46.45		ug/L		93	10 - 200	11	50
1,1-Dichloroethene	ND		50.0	59.57		ug/L		119	70 - 142	10	17
1,1-Dichloropropene	ND		50.0	50.02		ug/L		100	76 - 139	12	17
1,2,3-Trichlorobenzene	ND		50.0	56.76		ug/L		114	55 - 138	6	25
1,2,3-Trichloropropane	ND		50.0	49.74		ug/L		99	53 - 144	11	19
1,2,4-Trichlorobenzene	ND		50.0	57.45		ug/L		115	60 - 136	9	19
1,2,4-Trimethylbenzene	1.32		50.0	52.58		ug/L		103	69 - 136	10	16
1,2-Dibromo-3-Chloropropane	ND		50.0	48.13		ug/L		96	52 - 126	11	24
1,2-Dibromoethane (EDB)	ND		50.0	50.50		ug/L		101	75 - 137	12	15
1,2-Dichlorobenzene	ND		50.0	50.66		ug/L		101	79 - 128	10	15
1,2-Dichloroethane	ND		50.0	48.48		ug/L		97	64 - 136	12	17
1,2-Dichloropropane	ND		50.0	47.00		ug/L		94	67 - 131	11	17
1,3,5-Trimethylbenzene	ND		50.0	51.16		ug/L		102	69 - 139	11	17
1,3-Dichlorobenzene	ND		50.0	51.38		ug/L		103	77 - 131	11	15
1,3-Dichloropropane	ND		50.0	48.39		ug/L		97	72 - 134	12	14
1,4-Dichlorobenzene	ND		50.0	50.92		ug/L		102	78 - 126	10	15
2,2-Dichloropropane	ND		50.0	48.87		ug/L		98	37 - 175	13	18
2-Butanone (MEK)	ND		250	257.3		ug/L		103	50 - 138	12	19
2-Chlorotoluene	ND		50.0	50.25		ug/L		100	67 - 138	11	17
2-Hexanone	ND		250	287.8		ug/L		115	50 - 150	12	15
4-Chlorotoluene	ND		50.0	52.18		ug/L		104	69 - 138	11	18
4-Methyl-2-pentanone (MIBK)	ND		250	277.2		ug/L		111	50 - 147	12	17
Acetone	50.8		250	328.5		ug/L		111	45 - 141	9	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MSD

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	1.32		50.0	50.99		ug/L		99	75 - 133	11	17
Bromobenzene	ND		50.0	51.16		ug/L		102	60 - 138	12	20
Bromochloromethane	ND		50.0	49.52		ug/L		99	67 - 139	10	17
Bromodichloromethane	ND		50.0	52.71		ug/L		105	70 - 140	13	18
Bromoform	ND		50.0	49.33		ug/L		99	42 - 147	12	16
Bromomethane	2.79		50.0	49.71		ug/L		94	16 - 163	13	50
Carbon disulfide	8.36		50.0	56.03		ug/L		95	48 - 152	9	21
Carbon tetrachloride	ND		50.0	51.50		ug/L		103	62 - 164	12	19
Chlorobenzene	ND		50.0	49.65		ug/L		99	80 - 129	12	14
Chlorodibromomethane	ND		50.0	51.37		ug/L		103	66 - 140	13	15
Chloroethane	ND		50.0	47.15		ug/L		94	58 - 137	10	20
Chloroform	ND		50.0	47.30		ug/L		95	66 - 138	13	18
Chloromethane	3.99		50.0	41.50		ug/L		75	10 - 169	8	31
cis-1,2-Dichloroethene	ND		50.0	48.44		ug/L		97	68 - 138	12	17
cis-1,3-Dichloropropene	ND		50.0	49.93		ug/L		100	71 - 141	13	15
Dibromomethane	ND		50.0	49.96		ug/L		100	58 - 140	11	16
Dichlorodifluoromethane	ND		50.0	41.04		ug/L		82	40 - 127	10	18
Ethylbenzene	ND		50.0	50.33		ug/L		100	79 - 139	11	15
Hexachlorobutadiene	ND		50.0	53.23		ug/L		106	45 - 155	10	23
Isopropylbenzene	ND		50.0	50.84		ug/L		101	80 - 153	11	16
Methyl tert-butyl ether	ND		50.0	48.74		ug/L		97	66 - 141	12	16
Methylene Chloride	14.6		50.0	69.20		ug/L		109	64 - 139	10	17
Naphthalene	189		50.0	241.1	E	ug/L		103	55 - 140	9	26
n-Butylbenzene	ND		50.0	56.96		ug/L		114	66 - 141	9	18
N-Propylbenzene	ND		50.0	52.27		ug/L		105	69 - 142	11	17
p-Isopropyltoluene	ND		50.0	53.15		ug/L		106	71 - 137	10	16
sec-Butylbenzene	ND		50.0	54.30		ug/L		109	73 - 138	10	16
Styrene	ND		50.0	47.78		ug/L		96	61 - 148	14	24
tert-Butylbenzene	ND		50.0	52.19		ug/L		104	70 - 138	10	16
Tetrachloroethene	ND		50.0	50.25		ug/L		100	72 - 145	13	16
Toluene	ND		50.0	49.66		ug/L		99	75 - 136	12	15
trans-1,2-Dichloroethene	ND		50.0	54.04		ug/L		108	66 - 143	12	16
trans-1,3-Dichloropropene	ND		50.0	49.31		ug/L		99	59 - 135	13	14
Trichloroethene	ND		50.0	49.22		ug/L		98	73 - 144	11	17
Trichlorofluoromethane	ND		50.0	48.31		ug/L		97	58 - 139	10	18
Vinyl chloride	ND		50.0	45.55		ug/L		91	56 - 129	12	17
Xylenes, Total	ND		150	147.2		ug/L		98	74 - 141	11	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	04		73 - 1/3
4-BroB orfluoroF ethene (Surr)	13/		73 - 1/3
Dif roB orfluoroB ethane (Surr)	07		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62739/7

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 12:35	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 12:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 12:35	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 12:35	1
2-Hexanone	ND		10.0	ug/L			03/05/13 12:35	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 12:35	1
Acetone	ND		50.0	ug/L			03/05/13 12:35	1
Benzene	ND		1.00	ug/L			03/05/13 12:35	1
Bromobenzene	ND		1.00	ug/L			03/05/13 12:35	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 12:35	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 12:35	1
Bromoform	ND		1.00	ug/L			03/05/13 12:35	1
Bromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 12:35	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 12:35	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Chloroethane	ND		1.00	ug/L			03/05/13 12:35	1
Chloroform	ND		1.00	ug/L			03/05/13 12:35	1
Chloromethane	ND		1.00	ug/L			03/05/13 12:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
Dibromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 12:35	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 12:35	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 12:35	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62739/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 12:35	1
Methylene Chloride	ND		5.00	ug/L			03/05/13 12:35	1
Naphthalene	ND		5.00	ug/L			03/05/13 12:35	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 12:35	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Styrene	ND		1.00	ug/L			03/05/13 12:35	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 12:35	1
Toluene	ND		1.00	ug/L			03/05/13 12:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
Trichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 12:35	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 12:35	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	zz		73 - 1/3		3/ 5/ 5/ 129 :	1
4-8roB ortho/of enbene (Surr)	133		73 - 1/3		3/ 5/ 5/ 129 :	1
Dif roB ortho/orB ethane (Surr)	0:		73 - 1/3		3/ 5/ 5/ 129 :	1
Toluene-dz (Surr)	0z		73 - 1/3		3/ 5/ 5/ 129 :	1

Lab Sample ID: LCS 490-62739/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.05		ug/L		94	74 - 135
1,1,1-Trichloroethane	50.0	47.99		ug/L		96	78 - 135
1,1,2,2-Tetrachloroethane	50.0	45.55		ug/L		91	69 - 131
1,1,2-Trichloroethane	50.0	44.10		ug/L		88	80 - 124
1,1-Dichloroethane	50.0	48.86		ug/L		98	78 - 125
Diisopropyl ether	50.0	44.01		ug/L		88	61 - 142
1,1-Dichloroethene	50.0	56.21		ug/L		112	79 - 124
1,1-Dichloropropene	50.0	47.40		ug/L		95	80 - 122
1,2,3-Trichlorobenzene	50.0	51.52		ug/L		103	62 - 133
1,2,3-Trichloropropane	50.0	46.40		ug/L		93	70 - 131
1,2,4-Trichlorobenzene	50.0	53.43		ug/L		107	63 - 133
1,2,4-Trimethylbenzene	50.0	50.78		ug/L		102	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	43.79		ug/L		88	54 - 125
1,2-Dibromoethane (EDB)	50.0	47.11		ug/L		94	80 - 129
1,2-Dichlorobenzene	50.0	49.03		ug/L		98	80 - 121
1,2-Dichloroethane	50.0	42.43		ug/L		85	77 - 121
1,2-Dichloropropane	50.0	45.14		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	50.71		ug/L		101	77 - 127
1,3-Dichlorobenzene	50.0	49.94		ug/L		100	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62739/3

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	45.23		ug/L		90	80 - 125
1,4-Dichlorobenzene	50.0	49.21		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	44.75		ug/L		90	43 - 161
2-Butanone (MEK)	250	236.6		ug/L		95	62 - 133
2-Chlorotoluene	50.0	49.88		ug/L		100	75 - 126
2-Hexanone	250	235.6		ug/L		94	60 - 142
4-Chlorotoluene	50.0	51.64		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	223.9		ug/L		90	60 - 137
Acetone	250	287.9		ug/L		115	54 - 145
Benzene	50.0	44.55		ug/L		89	80 - 121
Bromobenzene	50.0	49.48		ug/L		99	68 - 130
Bromochloromethane	50.0	47.14		ug/L		94	78 - 129
Bromodichloromethane	50.0	50.34		ug/L		101	75 - 129
Bromoform	50.0	46.13		ug/L		92	46 - 145
Bromomethane	50.0	47.96		ug/L		96	41 - 150
Carbon disulfide	50.0	45.56		ug/L		91	77 - 126
Carbon tetrachloride	50.0	48.48		ug/L		97	64 - 147
Chlorobenzene	50.0	48.21		ug/L		96	80 - 120
Chlorodibromomethane	50.0	48.66		ug/L		97	69 - 133
Chloroethane	50.0	48.67		ug/L		97	72 - 120
Chloroform	50.0	46.10		ug/L		92	73 - 129
Chloromethane	50.0	41.23		ug/L		82	12 - 150
cis-1,2-Dichloroethene	50.0	46.71		ug/L		93	76 - 125
cis-1,3-Dichloropropene	50.0	47.70		ug/L		95	74 - 140
Dibromomethane	50.0	46.25		ug/L		92	71 - 125
Dichlorodifluoromethane	50.0	44.61		ug/L		89	37 - 127
Ethylbenzene	50.0	48.68		ug/L		97	80 - 130
Hexachlorobutadiene	50.0	48.52		ug/L		97	49 - 146
Isopropylbenzene	50.0	48.93		ug/L		98	80 - 141
Methyl tert-butyl ether	50.0	43.91		ug/L		88	72 - 133
Methylene Chloride	50.0	53.40		ug/L		107	79 - 123
Naphthalene	50.0	51.80		ug/L		104	62 - 138
n-Butylbenzene	50.0	52.66		ug/L		105	68 - 132
N-Propylbenzene	50.0	51.29		ug/L		103	75 - 129
p-Isopropyltoluene	50.0	50.89		ug/L		102	75 - 128
sec-Butylbenzene	50.0	52.20		ug/L		104	76 - 128
Styrene	50.0	49.03		ug/L		98	80 - 127
tert-Butylbenzene	50.0	50.86		ug/L		102	76 - 126
Tetrachloroethene	50.0	48.06		ug/L		96	80 - 126
Toluene	50.0	48.55		ug/L		97	80 - 126
trans-1,2-Dichloroethene	50.0	51.91		ug/L		104	79 - 126
trans-1,3-Dichloropropene	50.0	46.21		ug/L		92	63 - 134
Trichloroethene	50.0	47.37		ug/L		95	80 - 123
Trichlorofluoromethane	50.0	48.41		ug/L		97	65 - 124
Vinyl chloride	50.0	47.94		ug/L		96	68 - 120
Xylenes, Total	150	144.2		ug/L		96	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62739/3

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	zz		73 - 1/3
4-8roB orthuorof enbene (Surr)	13:		73 - 1/3
Dif roB orthuoroB ethane (Surr)	0:		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: LCSD 490-62739/4

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.61		ug/L		97	74 - 135	3	16
1,1,1-Trichloroethane	50.0	48.87		ug/L		98	78 - 135	2	17
1,1,1,2-Tetrachloroethane	50.0	46.90		ug/L		94	69 - 131	3	20
1,1,2-Trichloroethane	50.0	45.63		ug/L		91	80 - 124	3	15
1,1-Dichloroethane	50.0	50.45		ug/L		101	78 - 125	3	17
Diisopropyl ether	50.0	44.80		ug/L		90	61 - 142	2	50
1,1-Dichloroethene	50.0	55.64		ug/L		111	79 - 124	1	17
1,1-Dichloropropene	50.0	47.31		ug/L		95	80 - 122	0	17
1,2,3-Trichlorobenzene	50.0	52.95		ug/L		106	62 - 133	3	25
1,2,3-Trichloropropane	50.0	48.02		ug/L		96	70 - 131	3	19
1,2,4-Trichlorobenzene	50.0	54.24		ug/L		108	63 - 133	2	19
1,2,4-Trimethylbenzene	50.0	50.57		ug/L		101	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	45.29		ug/L		91	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	49.18		ug/L		98	80 - 129	4	15
1,2-Dichlorobenzene	50.0	49.80		ug/L		100	80 - 121	2	15
1,2-Dichloroethane	50.0	43.90		ug/L		88	77 - 121	3	17
1,2-Dichloropropane	50.0	45.92		ug/L		92	75 - 120	2	17
1,3,5-Trimethylbenzene	50.0	51.16		ug/L		102	77 - 127	1	17
1,3-Dichlorobenzene	50.0	50.40		ug/L		101	80 - 122	1	15
1,3-Dichloropropane	50.0	46.64		ug/L		93	80 - 125	3	14
1,4-Dichlorobenzene	50.0	49.59		ug/L		99	80 - 120	1	15
2,2-Dichloropropane	50.0	45.19		ug/L		90	43 - 161	1	18
2-Butanone (MEK)	250	249.7		ug/L		100	62 - 133	5	19
2-Chlorotoluene	50.0	50.17		ug/L		100	75 - 126	1	17
2-Hexanone	250	249.3		ug/L		100	60 - 142	6	15
4-Chlorotoluene	50.0	51.59		ug/L		103	75 - 130	0	18
4-Methyl-2-pentanone (MIBK)	250	235.7		ug/L		94	60 - 137	5	17
Acetone	250	311.2		ug/L		124	54 - 145	8	21
Benzene	50.0	45.10		ug/L		90	80 - 121	1	17
Bromobenzene	50.0	50.31		ug/L		101	68 - 130	2	20
Bromochloromethane	50.0	47.03		ug/L		94	78 - 129	0	17
Bromodichloromethane	50.0	51.88		ug/L		104	75 - 129	3	18
Bromoform	50.0	47.74		ug/L		95	46 - 145	3	16
Bromomethane	50.0	49.74		ug/L		99	41 - 150	4	50
Carbon disulfide	50.0	45.59		ug/L		91	77 - 126	0	21
Carbon tetrachloride	50.0	48.85		ug/L		98	64 - 147	1	19
Chlorobenzene	50.0	48.71		ug/L		97	80 - 120	1	14
Chlorodibromomethane	50.0	49.91		ug/L		100	69 - 133	3	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-62739/4

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	48.69		ug/L		97	72 - 120	0	20	
Chloroform	50.0	47.19		ug/L		94	73 - 129	2	18	
Chloromethane	50.0	40.21		ug/L		80	12 - 150	3	31	
cis-1,2-Dichloroethene	50.0	47.64		ug/L		95	76 - 125	2	17	
cis-1,3-Dichloropropene	50.0	48.88		ug/L		98	74 - 140	2	15	
Dibromomethane	50.0	48.63		ug/L		97	71 - 125	5	16	
Dichlorodifluoromethane	50.0	44.85		ug/L		90	37 - 127	1	18	
Ethylbenzene	50.0	48.69		ug/L		97	80 - 130	0	15	
Hexachlorobutadiene	50.0	48.73		ug/L		97	49 - 146	0	23	
Isopropylbenzene	50.0	48.62		ug/L		97	80 - 141	1	16	
Methyl tert-butyl ether	50.0	45.42		ug/L		91	72 - 133	3	16	
Methylene Chloride	50.0	54.14		ug/L		108	79 - 123	1	17	
Naphthalene	50.0	53.10		ug/L		106	62 - 138	2	26	
n-Butylbenzene	50.0	53.41		ug/L		107	68 - 132	1	18	
N-Propylbenzene	50.0	51.02		ug/L		102	75 - 129	1	17	
p-Isopropyltoluene	50.0	51.07		ug/L		102	75 - 128	0	16	
sec-Butylbenzene	50.0	52.36		ug/L		105	76 - 128	0	16	
Styrene	50.0	49.17		ug/L		98	80 - 127	0	24	
tert-Butylbenzene	50.0	51.08		ug/L		102	76 - 126	0	16	
Tetrachloroethene	50.0	48.28		ug/L		97	80 - 126	0	16	
Toluene	50.0	49.04		ug/L		98	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	52.88		ug/L		106	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	47.59		ug/L		95	63 - 134	3	14	
Trichloroethene	50.0	47.68		ug/L		95	80 - 123	1	17	
Trichlorofluoromethane	50.0	47.97		ug/L		96	65 - 124	1	18	
Vinyl chloride	50.0	48.80		ug/L		98	68 - 120	2	17	
Xylenes, Total	150	143.6		ug/L		96	80 - 132	0	15	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	01		73 - 1/3
4-8roB orthoB ethene (Surr)	13:		73 - 1/3
Dif roB orthoB ethane (Surr)	0z		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

Lab Sample ID: 490-20643-B-1 MS

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1,1,2-Tetrachloroethane	ND		50.0	47.99		ug/L		96	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	48.31		ug/L		97	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	44.80		ug/L		90	56 - 143	
1,1,2-Trichloroethane	ND		50.0	44.25		ug/L		88	74 - 134	
1,1-Dichloroethane	ND		50.0	48.08		ug/L		96	71 - 139	
Diisopropyl ether	ND		50.0	41.09		ug/L		82	10 - 200	
1,1-Dichloroethene	ND		50.0	56.95		ug/L		114	70 - 142	
1,1-Dichloropropene	ND		50.0	47.21		ug/L		94	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	49.37		ug/L		99	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	44.51		ug/L		89	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	51.47		ug/L		103	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	49.29		ug/L		99	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	42.16		ug/L		84	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	47.20		ug/L		94	75 - 137
1,2-Dichlorobenzene	ND		50.0	47.88		ug/L		96	79 - 128
1,2-Dichloroethane	ND		50.0	46.24		ug/L		92	64 - 136
1,2-Dichloropropane	ND		50.0	45.71		ug/L		91	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	49.70		ug/L		99	69 - 139
1,3-Dichlorobenzene	ND		50.0	49.04		ug/L		98	77 - 131
1,3-Dichloropropane	ND		50.0	45.39		ug/L		91	72 - 134
1,4-Dichlorobenzene	ND		50.0	48.10		ug/L		96	78 - 126
2,2-Dichloropropane	ND		50.0	43.46		ug/L		87	37 - 175
2-Butanone (MEK)	ND		250	228.3		ug/L		91	50 - 138
2-Chlorotoluene	ND		50.0	48.43		ug/L		97	67 - 138
2-Hexanone	ND		250	226.2		ug/L		90	50 - 150
4-Chlorotoluene	ND		50.0	49.86		ug/L		100	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	219.9		ug/L		88	50 - 147
Acetone	ND		250	246.7		ug/L		99	45 - 141
Benzene	ND		50.0	48.89		ug/L		98	75 - 133
Bromobenzene	ND		50.0	47.98		ug/L		96	60 - 138
Bromochloromethane	ND		50.0	46.98		ug/L		94	67 - 139
Bromodichloromethane	ND		50.0	51.24		ug/L		102	70 - 140
Bromoform	ND		50.0	46.12		ug/L		92	42 - 147
Bromomethane	ND		50.0	43.64		ug/L		87	16 - 163
Carbon disulfide	ND		50.0	44.19		ug/L		88	48 - 152
Carbon tetrachloride	ND		50.0	49.96		ug/L		100	62 - 164
Chlorobenzene	ND		50.0	48.61		ug/L		97	80 - 129
Chlorodibromomethane	ND		50.0	49.24		ug/L		98	66 - 140
Chloroethane	ND		50.0	45.16		ug/L		90	58 - 137
Chloroform	ND		50.0	46.19		ug/L		92	66 - 138
Chloromethane	ND		50.0	37.03		ug/L		74	10 - 169
cis-1,2-Dichloroethene	ND		50.0	45.57		ug/L		91	68 - 138
cis-1,3-Dichloropropene	ND		50.0	47.10		ug/L		94	71 - 141
Dibromomethane	ND		50.0	47.55		ug/L		95	58 - 140
Dichlorodifluoromethane	ND		50.0	40.72		ug/L		81	40 - 127
Ethylbenzene	ND		50.0	49.05		ug/L		98	79 - 139
Hexachlorobutadiene	ND		50.0	47.88		ug/L		96	45 - 155
Isopropylbenzene	ND		50.0	49.23		ug/L		98	80 - 153
Methyl tert-butyl ether	ND		50.0	42.64		ug/L		85	66 - 141
Methylene Chloride	ND		50.0	52.09		ug/L		104	64 - 139
Naphthalene	ND		50.0	50.76		ug/L		100	55 - 140
n-Butylbenzene	ND		50.0	52.25		ug/L		105	66 - 141
N-Propylbenzene	ND		50.0	50.40		ug/L		101	69 - 142
p-Isopropyltoluene	ND		50.0	49.89		ug/L		100	71 - 137
sec-Butylbenzene	ND		50.0	51.76		ug/L		104	73 - 138
Styrene	ND		50.0	49.18		ug/L		98	61 - 148
tert-Butylbenzene	ND		50.0	50.61		ug/L		101	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	49.21		ug/L		98	72 - 145
Toluene	ND		50.0	48.76		ug/L		98	75 - 136
trans-1,2-Dichloroethene	ND		50.0	50.60		ug/L		101	66 - 143
trans-1,3-Dichloropropene	ND		50.0	45.67		ug/L		91	59 - 135
Trichloroethene	ND		50.0	48.17		ug/L		96	73 - 144
Trichlorofluoromethane	ND		50.0	47.63		ug/L		95	58 - 139
Vinyl chloride	ND		50.0	43.83		ug/L		88	56 - 129
Xylenes, Total	ND		150	144.1		ug/L		96	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	06		73 - 1/3
4-Bromofluorobenzene (Surr)	133		73 - 1/3
Difluorobenzene (Surr)	04		73 - 1/3
Toluene-dz (Surr)	07		73 - 1/3

Lab Sample ID: 490-20643-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	48.17		ug/L		96	73 - 141	0	16
1,1,1-Trichloroethane	ND		50.0	54.38		ug/L		109	76 - 149	12	17
1,1,1,2-Tetrachloroethane	ND		50.0	45.21		ug/L		90	56 - 143	1	20
1,1,2-Trichloroethane	ND		50.0	44.48		ug/L		89	74 - 134	1	15
1,1-Dichloroethane	ND		50.0	48.34		ug/L		97	71 - 139	1	17
Diisopropyl ether	ND		50.0	41.49		ug/L		83	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	56.56		ug/L		113	70 - 142	1	17
1,1-Dichloropropene	ND		50.0	54.05		ug/L		108	76 - 139	14	17
1,2,3-Trichlorobenzene	ND		50.0	52.12		ug/L		104	55 - 138	5	25
1,2,3-Trichloropropane	ND		50.0	46.38		ug/L		93	53 - 144	4	19
1,2,4-Trichlorobenzene	ND		50.0	54.05		ug/L		108	60 - 136	5	19
1,2,4-Trimethylbenzene	ND		50.0	50.79		ug/L		102	69 - 136	3	16
1,2-Dibromo-3-Chloropropane	ND		50.0	42.14		ug/L		84	52 - 126	0	24
1,2-Dibromoethane (EDB)	ND		50.0	47.58		ug/L		95	75 - 137	1	15
1,2-Dichlorobenzene	ND		50.0	49.34		ug/L		99	79 - 128	3	15
1,2-Dichloroethane	ND		50.0	46.93		ug/L		94	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	45.83		ug/L		92	67 - 131	0	17
1,3,5-Trimethylbenzene	ND		50.0	51.21		ug/L		102	69 - 139	3	17
1,3-Dichlorobenzene	ND		50.0	50.52		ug/L		101	77 - 131	3	15
1,3-Dichloropropane	ND		50.0	45.60		ug/L		91	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	50.09		ug/L		100	78 - 126	4	15
2,2-Dichloropropane	ND		50.0	43.74		ug/L		87	37 - 175	1	18
2-Butanone (MEK)	ND		250	223.4		ug/L		89	50 - 138	2	19
2-Chlorotoluene	ND		50.0	49.96		ug/L		100	67 - 138	3	17
2-Hexanone	ND		250	224.1		ug/L		90	50 - 150	1	15
4-Chlorotoluene	ND		50.0	51.86		ug/L		104	69 - 138	4	18
4-Methyl-2-pentanone (MIBK)	ND		250	218.7		ug/L		87	50 - 147	1	17
Acetone	ND		250	245.7		ug/L		98	45 - 141	0	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	49.93		ug/L		100	75 - 133	2	17
Bromobenzene	ND		50.0	49.81		ug/L		100	60 - 138	4	20
Bromochloromethane	ND		50.0	47.08		ug/L		94	67 - 139	0	17
Bromodichloromethane	ND		50.0	51.59		ug/L		103	70 - 140	1	18
Bromoform	ND		50.0	46.21		ug/L		92	42 - 147	0	16
Bromomethane	ND		50.0	44.71		ug/L		89	16 - 163	2	50
Carbon disulfide	ND		50.0	44.92		ug/L		90	48 - 152	2	21
Carbon tetrachloride	ND		50.0	56.59		ug/L		113	62 - 164	12	19
Chlorobenzene	ND		50.0	49.26		ug/L		99	80 - 129	1	14
Chlorodibromomethane	ND		50.0	49.05		ug/L		98	66 - 140	0	15
Chloroethane	ND		50.0	44.48		ug/L		89	58 - 137	2	20
Chloroform	ND		50.0	46.18		ug/L		92	66 - 138	0	18
Chloromethane	ND		50.0	37.33		ug/L		75	10 - 169	1	31
cis-1,2-Dichloroethene	ND		50.0	45.95		ug/L		92	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	47.16		ug/L		94	71 - 141	0	15
Dibromomethane	ND		50.0	47.74		ug/L		95	58 - 140	0	16
Dichlorodifluoromethane	ND		50.0	40.44		ug/L		81	40 - 127	1	18
Ethylbenzene	ND		50.0	49.68		ug/L		99	79 - 139	1	15
Hexachlorobutadiene	ND		50.0	50.21		ug/L		100	45 - 155	5	23
Isopropylbenzene	ND		50.0	50.22		ug/L		100	80 - 153	2	16
Methyl tert-butyl ether	ND		50.0	42.63		ug/L		85	66 - 141	0	16
Methylene Chloride	ND		50.0	52.18		ug/L		104	64 - 139	0	17
Naphthalene	ND		50.0	50.49		ug/L		100	55 - 140	1	26
n-Butylbenzene	ND		50.0	53.99		ug/L		108	66 - 141	3	18
N-Propylbenzene	ND		50.0	51.92		ug/L		104	69 - 142	3	17
p-Isopropyltoluene	ND		50.0	51.78		ug/L		104	71 - 137	4	16
sec-Butylbenzene	ND		50.0	53.36		ug/L		107	73 - 138	3	16
Styrene	ND		50.0	49.43		ug/L		99	61 - 148	1	24
tert-Butylbenzene	ND		50.0	52.41		ug/L		105	70 - 138	4	16
Tetrachloroethene	ND		50.0	49.65		ug/L		99	72 - 145	1	16
Toluene	ND		50.0	49.51		ug/L		99	75 - 136	2	15
trans-1,2-Dichloroethene	ND		50.0	50.98		ug/L		102	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	45.46		ug/L		91	59 - 135	0	14
Trichloroethene	ND		50.0	48.47		ug/L		97	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	47.54		ug/L		95	58 - 139	0	18
Vinyl chloride	ND		50.0	43.79		ug/L		88	56 - 129	0	17
Xylenes, Total	ND		150	146.2		ug/L		97	74 - 141	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3
4-BroB orfluoroF enbene (Surr)	13/		73 - 1/3
Dif roB orfluoroB ethane (Surr)	13:		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-63231/1-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1-Methylnaphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Methylnaphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Acenaphthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dibenzofuran	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-63231/1-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63231

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Fluorene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Naphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Phenanthrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Trif roB ophenol (Surr)	03		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
2-Fluorof iphenyl (Surr)	7/		20 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
2-Fluorophenol (Surr)	: 7		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Nitrof enbene-d: (Surr)	77		27 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Phenol-d: (Surr)	/ :		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Terphenyl-d14 (Surr)	133		1/ - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
1,2,4-Trichlorobenzene	50.0	39.25		ug/L		79	30 - 120
1,2-Dichlorobenzene	50.0	40.16		ug/L		80	32 - 120
1,3-Dichlorobenzene	50.0	39.36		ug/L		79	32 - 120
1,4-Dichlorobenzene	50.0	37.92		ug/L		76	31 - 120
1-Methylnaphthalene	50.0	43.96		ug/L		88	36 - 120
2,4,5-Trichlorophenol	50.0	54.61		ug/L		109	40 - 129
2,4,6-Trichlorophenol	50.0	54.01		ug/L		108	39 - 135
2,4-Dichlorophenol	50.0	53.57		ug/L		107	38 - 120
2,4-Dimethylphenol	50.0	59.70		ug/L		119	21 - 126
2,4-Dinitrophenol	50.0	52.63		ug/L		105	20 - 150
2,4-Dinitrotoluene	50.0	56.32		ug/L		113	46 - 132
2,6-Dinitrotoluene	50.0	54.43		ug/L		109	54 - 128
2-Chloronaphthalene	50.0	47.02		ug/L		94	39 - 120
2-Chlorophenol	50.0	51.39		ug/L		103	40 - 120
2-Methylnaphthalene	50.0	44.34		ug/L		89	31 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
2-Methylphenol	50.0	50.27		ug/L		101	38 - 120
2-Nitroaniline	50.0	59.30		ug/L		119	46 - 131
2-Nitrophenol	50.0	54.95		ug/L		110	32 - 120
3,3'-Dichlorobenzidine	50.0	53.13		ug/L		106	46 - 129
3 & 4 Methylphenol	50.0	46.11		ug/L		92	33 - 120
3-Nitroaniline	50.0	54.76		ug/L		110	54 - 121
4,6-Dinitro-2-methylphenol	50.0	48.93		ug/L		98	19 - 150
4-Bromophenyl phenyl ether	50.0	47.25		ug/L		94	47 - 127
4-Chloro-3-methylphenol	50.0	54.95		ug/L		110	44 - 120
4-Chlorophenyl phenyl ether	50.0	52.67		ug/L		105	50 - 120
4-Chloroaniline	50.0	49.90		ug/L		100	44 - 120
4-Nitroaniline	50.0	53.50		ug/L		107	55 - 123
4-Nitrophenol	50.0	28.66		ug/L		57	10 - 120
Acenaphthylene	50.0	49.07		ug/L		98	48 - 120
Acenaphthene	50.0	45.62		ug/L		91	46 - 120
Benzo[a]anthracene	50.0	47.56		ug/L		95	57 - 120
Benzo[a]pyrene	50.0	49.56		ug/L		99	57 - 124
Benzo[b]fluoranthene	50.0	47.77		ug/L		96	51 - 125
Benzo[g,h,i]perylene	50.0	48.99		ug/L		98	51 - 123
Benzo[k]fluoranthene	50.0	52.82		ug/L		106	51 - 120
Anthracene	50.0	43.33		ug/L		87	58 - 130
Bis(2-chloroethoxy)methane	50.0	50.76		ug/L		102	44 - 120
Bis(2-chloroethyl)ether	50.0	48.84		ug/L		98	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	56.32		ug/L		113	47 - 138
bis (2-chloroisopropyl) ether	50.0	59.60		ug/L		119	44 - 120
Butyl benzyl phthalate	50.0	56.83		ug/L		114	51 - 146
Carbazole	50.0	46.78		ug/L		94	54 - 123
Chrysene	50.0	48.96		ug/L		98	55 - 120
Cresols	100	96.38		ug/L		96	33 - 120
Dibenz(a,h)anthracene	50.0	48.61		ug/L		97	50 - 125
Dibenzofuran	50.0	54.52		ug/L		109	50 - 120
Diethyl phthalate	50.0	53.76		ug/L		108	54 - 128
Dimethyl phthalate	50.0	53.53		ug/L		107	53 - 127
Di-n-butyl phthalate	50.0	47.85		ug/L		96	54 - 140
Di-n-octyl phthalate	50.0	60.02		ug/L		120	50 - 142
Fluoranthene	50.0	42.59		ug/L		85	56 - 120
Fluorene	50.0	47.63		ug/L		95	52 - 120
Hexachlorobenzene	50.0	49.26		ug/L		99	48 - 131
Hexachlorobutadiene	50.0	42.08		ug/L		84	28 - 120
Hexachlorocyclopentadiene	50.0	36.08		ug/L		72	17 - 120
Hexachloroethane	50.0	38.23		ug/L		76	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	48.83		ug/L		98	54 - 125
Isophorone	50.0	49.90		ug/L		100	47 - 120
Naphthalene	50.0	42.75		ug/L		86	37 - 120
Nitrobenzene	50.0	51.69		ug/L		103	36 - 120
N-Nitrosodi-n-propylamine	50.0	56.64		ug/L		113	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	58.94		ug/L		118	58 - 149

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Pentachlorophenol	50.0	53.01		ug/L		106	21 - 150	
Phenanthrene	50.0	45.95		ug/L		92	56 - 120	
Phenol	50.0	25.52		ug/L		51	14 - 120	
Pyrene	50.0	50.15		ug/L		100	53 - 129	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Trif roB ophenol (Surr)	zz		13 - 123
2-Fluorof iphenyl (Surr)	74		20 - 123
2-Fluorophenol (Surr)	: z		13 - 123
Nitrof enbene-d: (Surr)	z4		27 - 123
Phenol-d: (Surr)	/ z		13 - 123
Terphenyl-d14 (Surr)	04		1/ - 123

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-62941/28

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6-C10	ND		100	ug/L			03/05/13 21:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	02		: 3 - 1: 3		3/ 5/ 5/ 21:25	1

Lab Sample ID: LCS 490-62941/26

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
C6-C10	1000	1053		ug/L		105	66 - 140	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	77		: 3 - 1: 3

Lab Sample ID: LCSD 490-62941/27

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
C6-C10	1000	1032		ug/L		103	66 - 140	2	42

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	7z		: 3 - 1: 3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-62734/1-A
Matrix: Water
Analysis Batch: 62785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62734

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		03/05/13 07:48	03/05/13 14:33	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	64		: 3 - 1: 3			3/ 5: 5/ 379z	3/ 5: 5/ 149/	1

Lab Sample ID: LCS 490-62734/2-A
Matrix: Water
Analysis Batch: 62785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	794.9		ug/L		79	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl (Surr)	71		: 3 - 1: 3				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-63209/3
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/06/13 15:29	1

Lab Sample ID: LCS 490-63209/4
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.01		mg/L		108	90 - 110

Lab Sample ID: LCSD 490-63209/5
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	54.45		mg/L		109	90 - 110	1	20

Lab Sample ID: MB 490-63545/3
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/07/13 19:40	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-63545/4
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	50.13		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-63545/5
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.35		mg/L		97	90 - 110	4	20

Lab Sample ID: MB 490-64591/3
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/12/13 23:05	1

Lab Sample ID: LCS 490-64591/4
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.22		mg/L		104	90 - 110

Lab Sample ID: LCSD 490-64591/5
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	51.83		mg/L		104	90 - 110	1	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-63228/1-A
Matrix: Water
Analysis Batch: 63655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63228

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:06	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Iron	ND		0.100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Manganese	ND		0.0150	mg/L		03/06/13 14:45	03/07/13 22:06	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:06	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-63228/2-A

Matrix: Water

Analysis Batch: 63655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.04960		mg/L		99	80 - 120
Chromium	0.200	0.2206		mg/L		110	80 - 120
Cobalt	0.500	0.4881		mg/L		98	80 - 120
Copper	0.250	0.2742		mg/L		110	80 - 120
Iron	1.00	1.093		mg/L		109	80 - 120
Lead	0.0500	0.05310		mg/L		106	80 - 120
Manganese	0.500	0.4941		mg/L		99	80 - 120
Nickel	0.500	0.5463		mg/L		109	80 - 120
Selenium	0.0500	0.05090		mg/L		102	80 - 120
Thallium	0.0500	0.05420		mg/L		108	80 - 120
Vanadium	0.500	0.4964		mg/L		99	80 - 120

Lab Sample ID: 490-20658-G-1-B MS

Matrix: Water

Analysis Batch: 63655

Client Sample ID: 490-20658-G-1-B MS

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.0500	0.06120		mg/L		107	75 - 125
Chromium	0.494		0.200	0.7108		mg/L		109	75 - 125
Cobalt	0.948		0.500	1.497		mg/L		110	75 - 125
Copper	0.319		0.250	0.5714		mg/L		101	75 - 125
Iron	2.72		1.00	3.616		mg/L		90	75 - 125
Lead	0.0125		0.0500	0.06510		mg/L		105	75 - 125
Manganese	43.9		0.500	44.46	4	mg/L		122	75 - 125
Nickel	0.558		0.500	1.140		mg/L		117	75 - 125
Selenium	0.0523		0.0500	0.1204	F	mg/L		136	75 - 125
Thallium	0.0573		0.0500	0.1134		mg/L		112	75 - 125
Vanadium	ND		0.500	0.4845		mg/L		97	75 - 125

Lab Sample ID: 490-20658-G-1-C MSD

Matrix: Water

Analysis Batch: 63655

Client Sample ID: 490-20658-G-1-C MSD

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.0500	0.06300		mg/L		110	75 - 125	3	20
Chromium	0.494		0.200	0.7003		mg/L		103	75 - 125	1	20
Cobalt	0.948		0.500	1.487		mg/L		108	75 - 125	1	20
Copper	0.319		0.250	0.5662		mg/L		99	75 - 125	1	20
Iron	2.72		1.00	3.573		mg/L		85	75 - 125	1	20
Lead	0.0125		0.0500	0.06220		mg/L		99	75 - 125	5	20
Manganese	43.9		0.500	44.45	4	mg/L		120	75 - 125	0	20
Nickel	0.558		0.500	1.121		mg/L		113	75 - 125	2	20
Selenium	0.0523		0.0500	0.1170	F	mg/L		129	75 - 125	3	20
Thallium	0.0573		0.0500	0.1134		mg/L		112	75 - 125	0	20
Vanadium	ND		0.500	0.4803		mg/L		96	75 - 125	1	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-63705/1-A

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63705

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Chromium	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Cobalt	ND		0.0200	mg/L		03/08/13 09:40	03/11/13 13:00	1
Copper	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Iron	ND		0.100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Lead	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Manganese	ND		0.0150	mg/L		03/08/13 09:40	03/11/13 13:00	1
Nickel	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Selenium	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Thallium	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Vanadium	ND		0.0200	mg/L		03/08/13 09:40	03/11/13 13:00	1

Lab Sample ID: LCS 490-63705/2-A

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05240		mg/L		105	80 - 120
Chromium	0.200	0.2065		mg/L		103	80 - 120
Cobalt	0.500	0.5333		mg/L		107	80 - 120
Copper	0.250	0.2573		mg/L		103	80 - 120
Iron	1.00	1.066		mg/L		107	80 - 120
Lead	0.0500	0.05510		mg/L		110	80 - 120
Manganese	0.500	0.5504		mg/L		110	80 - 120
Nickel	0.500	0.5481		mg/L		110	80 - 120
Selenium	0.0500	0.05800		mg/L		116	80 - 120
Thallium	0.0500	0.05710		mg/L		114	80 - 120
Vanadium	0.500	0.5227		mg/L		105	80 - 120

Lab Sample ID: 490-20658-7 MS

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Dup-2

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.0500	ND		mg/L		NC	75 - 125
Chromium	2.11		0.200	2.160	4	mg/L		25	75 - 125
Cobalt	ND		0.500	ND		mg/L		104	75 - 125
Copper	ND		0.250	ND		mg/L		NC	75 - 125
Iron	ND		1.00	ND		mg/L		NC	75 - 125
Lead	ND		0.0500	ND		mg/L		NC	75 - 125
Manganese	ND		0.500	1.680		mg/L		88	75 - 125
Nickel	ND		0.500	ND		mg/L		114	75 - 125
Selenium	ND		0.0500	ND		mg/L		NC	75 - 125
Thallium	ND		0.0500	ND		mg/L		NC	75 - 125
Vanadium	2.49		0.500	3.020	4	mg/L		106	75 - 125

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-20658-7 MSD

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Dup-2

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Chromium	2.11		0.200	2.080	4	mg/L		-15	75 - 125	4	20
Cobalt	ND		0.500	ND		mg/L		108	75 - 125	3	20
Copper	ND		0.250	ND		mg/L		NC	75 - 125	NC	20
Iron	ND		1.00	ND		mg/L		NC	75 - 125	NC	20
Lead	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Manganese	ND		0.500	1.710		mg/L		94	75 - 125	2	20
Nickel	ND		0.500	ND		mg/L		118	75 - 125	3	20
Selenium	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Thallium	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Vanadium	2.49		0.500	2.950	4	mg/L		92	75 - 125	2	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC/MS VOA

Analysis Batch: 62691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8260B	
490-20658-3	OR-3W	Total/NA	Water	8260B	
490-20658-5	OR-5W	Total/NA	Water	8260B	
490-20658-7	Dup-2	Total/NA	Water	8260B	
490-20658-9	OR-10W	Total/NA	Water	8260B	
490-20658-9 MS	OR-10W	Total/NA	Water	8260B	
490-20658-9 MSD	OR-10W	Total/NA	Water	8260B	
490-20658-10	Trip Blank-4	Total/NA	Water	8260B	
490-20658-11	OS-10S	Total/NA	Water	8260B	
490-20658-12	OS-25S	Total/NA	Water	8260B	
490-20658-14	OS-20S	Total/NA	Water	8260B	
LCS 490-62691/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-62691/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-62691/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 62739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20643-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-20643-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-20658-1	OR-10S	Total/NA	Water	8260B	
490-20658-2	OS-10E	Total/NA	Water	8260B	
490-20658-3	OR-3W	Total/NA	Water	8260B	
490-20658-4	OS-5E	Total/NA	Water	8260B	
490-20658-5	OR-5W	Total/NA	Water	8260B	
490-20658-6	OS-5N	Total/NA	Water	8260B	
490-20658-8	OS-5S	Total/NA	Water	8260B	
490-20658-11	OS-10S	Total/NA	Water	8260B	
490-20658-12	OS-25S	Total/NA	Water	8260B	
490-20658-13	OS-15S	Total/NA	Water	8260B	
490-20658-14	OS-20S	Total/NA	Water	8260B	
LCS 490-62739/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-62739/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-62739/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 63231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3510C	
490-20658-2	OS-10E	Total/NA	Water	3510C	
490-20658-3	OR-3W	Total/NA	Water	3510C	
490-20658-4	OS-5E	Total/NA	Water	3510C	
490-20658-5	OR-5W	Total/NA	Water	3510C	
490-20658-6	OS-5N	Total/NA	Water	3510C	
490-20658-7	Dup-2	Total/NA	Water	3510C	
490-20658-8	OS-5S	Total/NA	Water	3510C	
490-20658-9	OR-10W	Total/NA	Water	3510C	
490-20658-11	OS-10S	Total/NA	Water	3510C	
490-20658-12	OS-25S	Total/NA	Water	3510C	
490-20658-13	OS-15S	Total/NA	Water	3510C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC/MS Semi VOA (Continued)

Prep Batch: 63231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-14	OS-20S	Total/NA	Water	3510C	
LCS 490-63231/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-63231/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 63398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-2	OS-10E	Total/NA	Water	8270D	63231
490-20658-3	OR-3W	Total/NA	Water	8270D	63231
490-20658-4	OS-5E	Total/NA	Water	8270D	63231
490-20658-5	OR-5W	Total/NA	Water	8270D	63231
490-20658-6	OS-5N	Total/NA	Water	8270D	63231
490-20658-7	Dup-2	Total/NA	Water	8270D	63231
490-20658-8	OS-5S	Total/NA	Water	8270D	63231
490-20658-9	OR-10W	Total/NA	Water	8270D	63231
490-20658-11	OS-10S	Total/NA	Water	8270D	63231
490-20658-12	OS-25S	Total/NA	Water	8270D	63231
490-20658-13	OS-15S	Total/NA	Water	8270D	63231
490-20658-14	OS-20S	Total/NA	Water	8270D	63231
LCS 490-63231/2-A	Lab Control Sample	Total/NA	Water	8270D	63231
MB 490-63231/1-A	Method Blank	Total/NA	Water	8270D	63231

Analysis Batch: 63702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-3	OR-3W	Total/NA	Water	8270D	63231
490-20658-5	OR-5W	Total/NA	Water	8270D	63231
490-20658-7	Dup-2	Total/NA	Water	8270D	63231
490-20658-8	OS-5S	Total/NA	Water	8270D	63231
490-20658-9	OR-10W	Total/NA	Water	8270D	63231
490-20658-11	OS-10S	Total/NA	Water	8270D	63231
490-20658-12	OS-25S	Total/NA	Water	8270D	63231
490-20658-13	OS-15S	Total/NA	Water	8270D	63231
490-20658-14	OS-20S	Total/NA	Water	8270D	63231

GC VOA

Analysis Batch: 62941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8015C	
490-20658-2	OS-10E	Total/NA	Water	8015C	
490-20658-3	OR-3W	Total/NA	Water	8015C	
490-20658-4	OS-5E	Total/NA	Water	8015C	
490-20658-5	OR-5W	Total/NA	Water	8015C	
490-20658-6	OS-5N	Total/NA	Water	8015C	
490-20658-7	Dup-2	Total/NA	Water	8015C	
490-20658-8	OS-5S	Total/NA	Water	8015C	
490-20658-9	OR-10W	Total/NA	Water	8015C	
490-20658-11	OS-10S	Total/NA	Water	8015C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC VOA (Continued)

Analysis Batch: 62941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-12	OS-25S	Total/NA	Water	8015C	
490-20658-13	OS-15S	Total/NA	Water	8015C	
490-20658-14	OS-20S	Total/NA	Water	8015C	
LCS 490-62941/26	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-62941/27	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-62941/28	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 62734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3510C	
490-20658-2	OS-10E	Total/NA	Water	3510C	
490-20658-3	OR-3W	Total/NA	Water	3510C	
490-20658-4	OS-5E	Total/NA	Water	3510C	
490-20658-5	OR-5W	Total/NA	Water	3510C	
490-20658-6	OS-5N	Total/NA	Water	3510C	
490-20658-7	Dup-2	Total/NA	Water	3510C	
490-20658-8	OS-5S	Total/NA	Water	3510C	
490-20658-9	OR-10W	Total/NA	Water	3510C	
490-20658-11	OS-10S	Total/NA	Water	3510C	
490-20658-12	OS-25S	Total/NA	Water	3510C	
490-20658-13	OS-15S	Total/NA	Water	3510C	
490-20658-14	OS-20S	Total/NA	Water	3510C	
LCS 490-62734/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-62734/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 62785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	8015C	62734
490-20658-4	OS-5E	Total/NA	Water	8015C	62734
490-20658-6	OS-5N	Total/NA	Water	8015C	62734
490-20658-13	OS-15S	Total/NA	Water	8015C	62734
LCS 490-62734/2-A	Lab Control Sample	Total/NA	Water	8015C	62734
MB 490-62734/1-A	Method Blank	Total/NA	Water	8015C	62734

Analysis Batch: 63104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8015C	62734
490-20658-3	OR-3W	Total/NA	Water	8015C	62734
490-20658-5	OR-5W	Total/NA	Water	8015C	62734
490-20658-7	Dup-2	Total/NA	Water	8015C	62734
490-20658-8	OS-5S	Total/NA	Water	8015C	62734
490-20658-9	OR-10W	Total/NA	Water	8015C	62734
490-20658-11	OS-10S	Total/NA	Water	8015C	62734
490-20658-12	OS-25S	Total/NA	Water	8015C	62734
490-20658-14	OS-20S	Total/NA	Water	8015C	62734

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

HPLC/IC

Analysis Batch: 63209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	300.0	
490-20658-3	OR-3W	Total/NA	Water	300.0	
490-20658-4	OS-5E	Total/NA	Water	300.0	
490-20658-5	OR-5W	Total/NA	Water	300.0	
490-20658-6	OS-5N	Total/NA	Water	300.0	
490-20658-7	Dup-2	Total/NA	Water	300.0	
490-20658-8	OS-5S	Total/NA	Water	300.0	
490-20658-9	OR-10W	Total/NA	Water	300.0	
490-20658-11	OS-10S	Total/NA	Water	300.0	
490-20658-12	OS-25S	Total/NA	Water	300.0	
490-20658-14	OS-20S	Total/NA	Water	300.0	
LCS 490-63209/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-63209/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-63209/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 63545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-13	OS-15S	Total/NA	Water	300.0	
LCS 490-63545/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-63545/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-63545/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 64591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	300.0	
LCS 490-64591/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-64591/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-64591/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 63228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3010A	
490-20658-2	OS-10E	Total/NA	Water	3010A	
490-20658-3	OR-3W	Total/NA	Water	3010A	
490-20658-4	OS-5E	Total/NA	Water	3010A	
490-20658-5	OR-5W	Total/NA	Water	3010A	
490-20658-6	OS-5N	Total/NA	Water	3010A	
490-20658-9	OR-10W	Total/NA	Water	3010A	
490-20658-11	OS-10S	Total/NA	Water	3010A	
490-20658-12	OS-25S	Total/NA	Water	3010A	
490-20658-13	OS-15S	Total/NA	Water	3010A	
490-20658-14	OS-20S	Total/NA	Water	3010A	
490-20658-G-1-B MS	490-20658-G-1-B MS	Total/NA	Water	3010A	
490-20658-G-1-C MSD	490-20658-G-1-C MSD	Total/NA	Water	3010A	
LCS 490-63228/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-63228/1-A	Method Blank	Total/NA	Water	3010A	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Metals (Continued)

Analysis Batch: 63655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	6010C	63228
490-20658-3	OR-3W	Total/NA	Water	6010C	63228
490-20658-4	OS-5E	Total/NA	Water	6010C	63228
490-20658-5	OR-5W	Total/NA	Water	6010C	63228
490-20658-6	OS-5N	Total/NA	Water	6010C	63228
490-20658-9	OR-10W	Total/NA	Water	6010C	63228
490-20658-11	OS-10S	Total/NA	Water	6010C	63228
490-20658-12	OS-25S	Total/NA	Water	6010C	63228
490-20658-13	OS-15S	Total/NA	Water	6010C	63228
490-20658-14	OS-20S	Total/NA	Water	6010C	63228
490-20658-G-1-B MS	490-20658-G-1-B MS	Total/NA	Water	6010C	63228
490-20658-G-1-C MSD	490-20658-G-1-C MSD	Total/NA	Water	6010C	63228
LCS 490-63228/2-A	Lab Control Sample	Total/NA	Water	6010C	63228
MB 490-63228/1-A	Method Blank	Total/NA	Water	6010C	63228

Prep Batch: 63705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-7	Dup-2	Total/NA	Water	3010A	
490-20658-7 MS	Dup-2	Total/NA	Water	3010A	
490-20658-7 MSD	Dup-2	Total/NA	Water	3010A	
490-20658-8	OS-5S	Total/NA	Water	3010A	
LCS 490-63705/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-63705/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 63809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	6010C	63228
490-20658-5	OR-5W	Total/NA	Water	6010C	63228

Analysis Batch: 64234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-7	Dup-2	Total/NA	Water	6010C	63705
490-20658-7 MS	Dup-2	Total/NA	Water	6010C	63705
490-20658-7 MSD	Dup-2	Total/NA	Water	6010C	63705
490-20658-8	OS-5S	Total/NA	Water	6010C	63705
LCS 490-63705/2-A	Lab Control Sample	Total/NA	Water	6010C	63705
MB 490-63705/1-A	Method Blank	Total/NA	Water	6010C	63705



Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 02:59	EL	TAL NSH
Total/NA	Analysis	8260B		20	62739	03/05/13 18:01	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 19:52	BS	TAL NSH
Total/NA	Analysis	8270D		100	63702	03/08/13 15:16	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:01	BS	TAL NSH
Total/NA	Analysis	8015C		5	62941	03/05/13 22:26	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 11:51	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 18:02	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		100	63809	03/08/13 10:38	BB	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 15:45	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:13	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 22:56	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 15:21	JL	TAL NSH
Total/NA	Analysis	300.0		5	64591	03/13/13 00:05	HT	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:23	BB	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 03:53	EL	TAL NSH
Total/NA	Analysis	8260B		5	62739	03/05/13 18:28	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:34	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:22	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 23:27	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:07	JJ	TAL NSH
Total/NA	Analysis	300.0		100	63209	03/06/13 18:41	KD	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:27	BB	TAL NSH

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 16:12	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:55	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 23:57	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 15:53	JL	TAL NSH
Total/NA	Analysis	300.0		10	63209	03/06/13 19:00	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:30	BB	TAL NSH

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 04:47	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 18:56	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:16	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:43	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 00:27	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 12:24	JJ	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 19:19	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:34	BB	TAL NSH
Total/NA	Analysis	6010C		10	63809	03/08/13 10:42	BB	TAL NSH

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 16:40	EL	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:37	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 00:57	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 16:25	JL	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 20:16	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:51	BB	TAL NSH

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 05:41	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:58	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:04	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 01:28	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:40	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 20:36	KD	TAL NSH
Total/NA	Prep	3010A			63705	03/08/13 09:40	MT	TAL NSH
Total/NA	Analysis	6010C		100	64234	03/11/13 13:07	BB	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 17:07	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 22:20	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:26	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 01:58	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:56	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 20:55	KD	TAL NSH
Total/NA	Prep	3010A			63705	03/08/13 09:40	MT	TAL NSH
Total/NA	Analysis	6010C		100	64234	03/11/13 13:18	BB	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 06:35	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 22:41	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:48	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 02:28	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		2	63104	03/06/13 13:12	JJ	TAL NSH
Total/NA	Analysis	300.0		200	63209	03/06/13 21:14	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:54	BB	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 01:38	EL	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 07:03	EL	TAL NSH
Total/NA	Analysis	8260B		5	62739	03/05/13 19:23	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:02	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 13:09	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 02:58	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 13:28	JJ	TAL NSH
Total/NA	Analysis	300.0		100	63209	03/06/13 21:34	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:58	BB	TAL NSH

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 07:30	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 19:50	EL	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:23	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 14:13	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 03:29	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 13:44	JJ	TAL NSH
Total/NA	Analysis	300.0		10	63209	03/06/13 21:53	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:02	BB	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 17:34	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:44	BS	TAL NSH
Total/NA	Analysis	8270D		2	63702	03/08/13 14:34	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 03:59	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 18:51	JL	TAL NSH
Total/NA	Analysis	300.0		1	63545	03/08/13 02:21	HT	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:05	BB	TAL NSH

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 08:24	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 20:17	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/08/13 00:05	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 14:55	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 04:29	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 14:00	JJ	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 22:31	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:09	BB	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	03-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13





COOLER RECEIPT FORM

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0330 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES...NO...NA (1 front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES (NO)...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [initials]

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) [initials]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [initials]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [initials]

I certify that I attached a label with the unique LIMS number to each container (initial) [initials]

21. Were there Non-Conformance issues at login? YES (NO) Was a NCM generated? YES (NO) .#

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
B

Cooler Received/Opened On : 03/01/13 @ 0810

Tracking # 4439 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...**NA**

4. Were custody seals on outside of cooler? **YES**...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? **YES**...NO...NA

6. Were custody papers inside cooler? **YES**...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES **NO** and Intact YES NO **NA**

Were these signed and dated correctly? YES...NO...**NA**

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? **YES**...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? **YES**...NO...NA

12. Did all container labels and tags agree with custody papers? **YES**...NO...NA

13a. Were VOA vials received? YES **NO**...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...**NA**

14. Was there a Trip Blank in this cooler? YES...**NO**...NA If multiple coolers, sequence # AH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...**NA**

b. Did the bottle labels indicate that the correct preservatives were used **YES**...NO...NA

16. Was residual chlorine present? YES...**NO**...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? **YES**...NO...NA

18. Did you sign the custody papers in the appropriate place? **YES**...NO...NA

19. Were correct containers used for the analysis requested? **YES**...NO...NA

20. Was sufficient amount of sample sent in each container? **YES**...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES...**NO** Was a NCM generated? YES...**NO**..#



THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
C

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0351 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #

BIS = Broken in shipment
Cooler Receipt Form.doc





COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
D

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0899 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (Frank) YES...NO...NA
If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JS

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # AH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JW

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JW

I certify that I attached a label with the unique LIMS number to each container (initial) JW

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#



THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
E

Cooler Received/Opened On : 03/01/13 @ 0810

Tracking # 0400 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA YES NO NA

4. Were custody seals on outside of cooler? YES NO NA
If yes, how many and where: IF front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA
Were these signed and dated correctly? YES...NO...NA YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) AK

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # 0

BIS = Broken in shipment
Cooler Receipt Form.doc





COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
F

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0340 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: (-0) Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? (1 Seal) YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) (Signature)

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (Initial) Att

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES..NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) (Signature)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) (Signature)

I certify that I attached a label with the unique LIMS number to each container (Initial) (Signature)

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..# _____

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#2
A

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 1200 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? 1 front YES...NO...NA
If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES NO..NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO..# _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
20658

5755 8th Street East, Tacoma, WA 98424-1317
11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days*

Organic & Inorganic Analyses
 10 STD. 7 5 4 3 2 1 <1
 Petroleum Hydrocarbon Analyses
 5 STD. 4 3 2 1 <1
 OTHER Specify: _____

*Turnaround Request less than standard may incur Rush Charges.

CLIENT: Duke Energy		INVOICE TO:		PRESERVATIVE		TURNAROUND REQUEST	
REPORT TO: Andy Clark		ADDRESS: 2801 Yorkmont Rd		PHONE: Charlotte, NC 28208		FAX: 28208	
PROJECT NAME: Duke Energy Spartanburg		PROJECT NUMBER: 6238-12-C021		SAMPLER BY: Trey Holschuh + Kelley Clark		DATE: 2-28-13	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	HCL	ND	HMG	NC	HCL	HCL
1 OR-10S	2-28-13/ 830	3	2	1	1	2	3
2 OS-10E	2-28-13/ 840	3	2	1	1	2	3
3 OR-3W	2-28-13/ 955	3	2	1	1	2	3
4 OS-5E	2-28-13/ 1000	3	2	1	1	2	3
5 OR-5W	2-28-13/ 1110	3	2	1	1	2	3
6 OS-5N	2-28-13/ 1100	3	2	1	1	2	3
7 Dup-2	2-28-13/ -	3	2	1	1	2	3
8 OS-5S	2-28-13/ 1200	3	2	1	1	2	3
9 OR-10W	2-28-13/ 1245	3	2	1	1	2	3
10 TriA Blank-4	2-28-13/ 800	2					
RELEASED BY: Trey L Holschuh	FIRM: AMEL	DATE: 2-28-13	TIME: 1:30	RECEIVED BY: N. Borkan	FIRM: TH	DATE: 2/28/13	TIME: 1:10
PRINT NAME: C. Borkan	FIRM: TR	DATE: 2/28/13	TIME: 1:30	RECEIVED BY: Mike M. Gale	FIRM: TR	DATE: 3/13	TIME: 0810
ADDITIONAL REMARKS: Metals: Vanadium, Arsenic, Chromium, Selenium, Thallium, Copper, Nickel, Lead, Iron, Manganese, Cobalt							



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-23
 509-924-92
 503-906-9200
 907-563-9200

Loc: 490
20658
#1
A

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days *

<input type="checkbox"/> 10 STD.	<input type="checkbox"/> 7 STD.	<input type="checkbox"/> 5 STD.	<input type="checkbox"/> 4 STD.	<input type="checkbox"/> 3 STD.	<input type="checkbox"/> 2 STD.	<input type="checkbox"/> 1 STD.	<input type="checkbox"/> <1 STD.
Organic & Inorganic Analyses							
Petroleum Hydrocarbon Analyses							
<input type="checkbox"/> 5 STD.	<input type="checkbox"/> 4 STD.	<input type="checkbox"/> 3 STD.	<input type="checkbox"/> 2 STD.	<input type="checkbox"/> 1 STD.	<input type="checkbox"/> <1 STD.		

* Turnaround Request less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE						REQUESTED ANALYSES	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
		HCL	NO	HW	NO	HA	HL					
05-105	2-28-13/ 1325	VOCs						W	12		-11	
05-255	2-28-13/ 1410	SVOCs						W	12		12	
05-155	2-28-13/ 1420	Metals						W	12		13	
05-205	2-28-13/ 1515	Sulfate						W	12		14	
		DRO										
		GRD										

RELEASED BY: **Troy Holzschuh** FIRM: **AMEC** DATE: **2-28-13** RECEIVED BY: **A. Berham** FIRM: **TA** DATE: **2/28/13**
 PRINT NAME: **Troy Holzschuh** TIME: **1:10**
 PRINT NAME: **A. Berham** TIME: **1:10**
 FIRM: **TA** FIRM: **TA**
 ADDITIONAL REMARKS: **Metals: Vanadium, Arsenic, Chromium, Selenium, Thallium, Copper, Nickel, Lead, Iron, Manganese, Cobalt**

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-20658-1

Login Number: 20658

List Source: TestAmerica Nashville

List Number: 1

Creator: Myers, Madonna

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4''$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

APPENDIX F

**FIELD GEOCHEMICAL DATA FOR SHALLOW ZONE PERFORMANCE
MONITORING**



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228.12.0021 MONITORING WELL NUMBER MW-1DR
 SITE NAME Duke Sparta DATE 10/3/12 TIME OF SAMPLE 11:05
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS P. Cloudy

TOTAL WELL DEPTH (TWD) 62 FT. (measured / well tag / drillers log / previous report - circle one)
 SCREENED INTERVAL 57-62 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 7.17
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 54.83
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 8.9 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 26.8 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 2.5 GAL. FLOW RATE 187/100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS
 LOCKING CAP YES NO 1:22 to fill 255 mL
 PROTECTIVE POST/ABUTMENT YES NO 82 ~~1000~~ = 60 = 186.6
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>7.17</u>	<u>6.98</u>	<u>0.261</u>	<u>139.0</u>	<u>0.02</u>	<u>17.67</u>	<u>172</u>	
<u>10 min</u>	<u>10.45</u>	<u>6.99</u>	<u>0.258</u>	<u>201.0</u>	<u>0.00</u>	<u>17.47</u>	<u>160</u>	
<u>15 min</u>	<u>11.35</u>	<u>7.25</u>	<u>0.256</u>	<u>255.0</u>	<u>0.00</u>	<u>17.40</u>	<u>143</u>	
<u>20 min</u>	<u>11.65</u>	<u>7.45</u>	<u>0.256</u>	<u>302.0</u>	<u>0.00</u>	<u>17.35</u>	<u>29</u>	<u>low purge rate to 100 mL/min</u>
<u>25 min</u>	<u>11.40</u>	<u>7.63</u>	<u>0.257</u>	<u>312.0</u>	<u>0.00</u>	<u>17.50</u>	<u>51</u>	
<u>30 min</u>	<u>11.31</u>	<u>7.56</u>	<u>0.264</u>	<u>71.5</u>	<u>4.41</u>	<u>17.49</u>	<u>46</u>	<u>Prior to reading empty flow thru cell</u>

[Handwritten signature]



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-115
 SITE NAME Duke Spartanburg DATE 10/2/12 TIME OF SAMPLE 1130
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS Rain heavily overnight/Sunny

TOTAL WELL DEPTH (TWD) 14.60 FT. (measured / well tag drillers log/ previous report - circle one)
 SCREENED INTERVAL 4.6-14.6 MEASURING POINT FOR DEPTH NA
 DEPTH TO GROUNDWATER (DGW) 11.40
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.2
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.5 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 1.5 FIVE STANDING WELL VOLUMES = 2.5

METHOD OF WELL EVACUATION: BAILER / PUMP OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 40 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS purged dry @ 1.40
 LOCKING CAP YES ✓ NO _____ collect sample reading
 PROTECTIVE POST/ABUTMENT YES _____ NO ✓ prior to collecting samples
 NONPOTABLE LABEL YES ✓ NO _____ - allowed 1 hr of recharge
 ID PLATE YES ✓ NO _____ - purged dry during sampling/collected
 WELL INTEGRITY SATISFACTORY YES ✓ NO _____ pad cracked all but VOCs, SVOCs
 WELL YIELD LOW ✓ MODERATE _____ HIGH _____ 1500 - collected SVOCs and VOCs
(only one SVOC purged dry)

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	11.40	4.60	0.394	888.0	10.15	21.42	229	
5	12.76	3.90	0.517	7100	0.00	21.41	281	
10	13.45	3.96	0.537	7100	0.00	21.47	280	Empty flow thru cell
15	14.05	4.35	0.407	605.0	6.07	21.56	249	
20	14.35	4.34	0.434	526.0	5.10	21.87	243	
25	14.40 (dry)	4.34	0.454	472.0	4.98	22.49	243	Purged dry
35	14.72	4.72	0.089	55.1	0.01	24.39	266	RMC 10/2/12
* Sample	DNM	4.41	0.451	32.1	11.61	26.15	233	

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-11D
 SITE NAME Duke Spartanburg DATE 10/2/12 TIME OF SAMPLE 1435
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS Rain in AM/Sunny

TOTAL WELL DEPTH (TWD) 31.2 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 26.2-31.2 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 11.22
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 19.98
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 3.3 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 9.9 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peristaltic (flow flood)
 TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES ✓ NO _____ - MW-11D located approx 8' towards creek from MW-11S
 PROTECTIVE POST/ABUTMENT YES _____ NO ✓ - Begin sampling @ 1435
 NONPOTABLE LABEL YES ✓ NO _____
 ID PLATE YES ✓ NO _____
 WELL INTEGRITY SATISFACTORY YES ✓ NO _____ - vegetation high initially, could not find
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	11.35	6.92	0.358	42.8	6.88	20.30	8	
5 min	12.60	6.69	0.335	37.4	0.00	19.52	39	
10 min	13.09	6.92	0.330	23.7	0.00	19.36	35	
15 min	13.39	7.02	0.332	18.4	0.00	19.13	31	Empty flow thru cell reading
20 min	13.45	7.17	0.333	16.7	5.30	18.78	19	
25 min	13.35	7.39	0.330	14.1	0.00	18.93	13	

14:19
14:24
14:29
14:34
14:39
14:34

after



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER G228-12-0021 MONITORING WELL NUMBER MW-13 D
 SITE NAME Duke Spartan bilog DATE 10/3/12 TIME OF SAMPLE 1540
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS P. Cloudy

TOTAL WELL DEPTH (TWD) 35.4 FT. (measured well tag drillers log/ previous report - circle one)
 SCREENED INTERVAL 30.4-35.4 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.88
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 26.52

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 4.2 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 12.6 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 3.0 GAL. FLOW RATE 168 ml/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE
 LOCKING CAP YES NO
 PROTECTIVE POST/ABUTMENT YES NO
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

COMMENTS ~~that the pump~~ in well/removed pump & tubing - large ant nest adjacent to well
 $\frac{255 \text{ ml}}{91} = \frac{x}{60} \quad x = 168$

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	9.95	6.92	0.415	34.5	5.72	18.89	86	
5 min	11.12	6.44	0.414	35.7	5.43	18.85	94	
10 min	12.58	6.25	0.412	38.9	5.09	18.81	110	
15 min	14.30	6.40	0.412	48.9	5.02	18.80	107	
20 min	15.90	6.62	0.412	75.3	5.18	18.72	102	slow purge rate to approx 100 ml/min
25 min	18.75	6.68	0.413	93.5	5.23	19.31	106	
30 min	22.53	6.64	0.411	126.0	5.44	18.44	115	slow purge rate to 60 ml/min
35 min	24.50	6.71	0.412	112.0	5.13	19.67	117	
40 min	DNM	DNM	DNM	↑23.6	DNM	DNM	DNM	

Stabilized @ 25' b/c Recalibrate U-22 U-22 reading 436 on Cal 5. Autocal 5. Recal = 0.0



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOL
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1600
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° Cloudy

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 7.0

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.5

CASING DIAMETER 4 IN.
 ONE STANDING WELL VOLUME = 9.4 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 28.2 FIVE STANDING WELL VOLUMES = 47

METHOD OF WELL EVACUATION: BAILER/PUMP/ OTHER: TYPE Perc

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	7.0	6.43	0.945	32.7	1.07	22.13	-13	
1546	7.4	6.16	0.981	11.2	0.19	21.86	-21	
1551	7.43	6.2	0.990	8.9	0.02	21.79	-26	
1556	7.49	6.23	0.989	5.5	0	21.75	-30	

5.36



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-163
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1200
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° cloudy

TOTAL WELL DEPTH (TWD) 18.35 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8.35-18.25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 15.29
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.06
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = .50 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 1.5 FIVE STANDING WELL VOLUMES = 2.5

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Perc

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	15.29	5.59	0.232	39.6	3.67	22.22	231	
1145	15.62	5.59	0.327	23.3	1.18	21.78	262	
1150	15.59	5.62	0.333	9.3	0.9	21.78	258	
1155	15.59	5.64	0.334	7.8	0.9	21.83	255	

1135

⊙



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-160
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1235
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° Cloudy

TOTAL WELL DEPTH (TWD) 31.5 FT. (measured) well tag / drillers log/ previous report - circle one
 SCREENED INTERVAL 26.5-31.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 15.72
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 15.78

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.58 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 7.74 FIVE STANDING WELL VOLUMES = 12.9

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	15.72	6.86	0.341	63.6	1.71	20.72	97	
1227	15.3	6.86	0.336	16.5	0.26	20.5	-0	
1228	15.3	6.83	0.335	11.3	0.25	20.46	-11	
1233	15.31	6.81	0.335	8.6	0.1	20.49	-15	

1218



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-002 MONITORING WELL NUMBER MW-0555
 SITE NAME Duke Spartanburg DATE 10-5-12 TIME OF SAMPLE 1305
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 13 FT (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TDL

DEPTH TO GROUNDWATER (DGW) 8.65
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.35

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.71 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.13 FIVE STANDING WELL VOLUMES = 3.55

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE Peri

TOTAL VOLUME OF WATER REMOVED: 1 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.78	6.62	0.804	77.9	3.92	23.61	-10	
1254	8.79	6.13	0.785	28.2	0.54	22.58	-4	
1259	8.79	6.10	0.784	14.3	0.56	22.67	-16	
1304	8.79	6.11	0.784	7.7	0.56	22.63	-18	

1244



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-05205
 SITE NAME Duke-Spartanburg DATE 10-5-12 TIME OF SAMPLE 1035
 FIELD PERSONNEL T L H WEATHER CONDITIONS Sunny 83°

TOTAL WELL DEPTH (TWD) 13 FT. (~~measured~~ well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.78
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.22

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.64 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.07 FIVE STANDING WELL VOLUMES = 3.45

METHOD OF WELL EVACUATION: BAILER (~~PUMP~~)/ OTHER: TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.78	6.45	0.622	178	1.7	20.16	-24	
1015	8.83	6.34	0.599	67.1	0.23	20.62	-48	
1020	8.83	6.31	0.596	26.1	0.09	20.69	-68	
1025	8.82	6.30	0.591	16.8	0.02	20.66	-72	
1030	8.83	6.30	0.59	4.7	0.02	20.66	-74	

1005



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER 05105
 SITE NAME Duke Energy DATE 2-4-13 TIME OF SAMPLE 1245
 FIELD PERSONNEL TLH WEATHER CONDITIONS 45° Cloudy

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.35
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 4.65
 CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.76 gal.
 (NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.28 FIVE STANDING WELL VOLUMES = 3.8

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT/ ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Sheen Present Strong Odor

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.51	5.56	21.8	61.6	22.73	13.82	101	
1230	8.55	5.32	23.5	46.7	7.20	15.19	175	
1235	8.55	5.38	23.7	47.1	7.41	15.24	180	
1240	8.55	5.42	23.9	45.8	7.45	15.23	187	

1225



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR 10 W
 SITE NAME Duke Energy DATE 2-4-13 TIME OF SAMPLE N/A
 FIELD PERSONNEL TLH WEATHER CONDITIONS 35° cloudy

TOTAL WELL DEPTH (TWD) 22.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 12.5 - 22.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.62
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 13.88

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.27 gal.
 (NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 6.81 FIVE STANDING WELL VOLUMES = 11.35

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____ clear no noticeable odor
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.62	6.35	12.6	355	1.58	12.95	167	
8:20	8.67	4.30	13.9	93.1	0	14.56	311	
8:25	8.65	4.08	14.7	67.1	0	14.26	325	
8:30	8.65	3.93	15.4	43.8	0	14.27	344	

8:15



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-5E
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE N/A
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 50°

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log/ previous report – **circle one**)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 7.89
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 5.11
 CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.84 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.52 FIVE STANDING WELL VOLUMES = 4.2

METHOD OF WELL EVACUATION: BAILER PUMP / OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.00	6.10	9.07	66.7	9.37	19.19	301	
1505	8.11	7.56	6.46	79.7	16.91	19.35	253	
1510	8.18	8.32	5.50	38.2	18.78	19.50	213	
1515	8.26	8.46	5.11	23.8	19.62	19.19	186	

1500



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-5S
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE N/A
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 50°

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.5
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 4.5
 CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.74 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.22 FIVE STANDING WELL VOLUMES = 3.7

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.65	5.38	8.11	23.8	6.47	17.33	198	
1343	8.67	9.95	31.3	NR	7.16	17.70	103	
1348	8.68	10.16	32.2	527	8.36	18.21	213	
1353	8.68	10.15	32.4	124	8.60	18.29	232	

1338



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5S
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE N/A
 FIELD PERSONNEL TLH WEATHER CONDITIONS 46° Sunny

TOTAL WELL DEPTH (TWD) ~~25~~ 25 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL ~~20-25~~ 20-25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.75
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 16.25
 CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 2.67 gal.
 (NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 8.01 FIVE STANDING WELL VOLUMES = 13.35

METHOD OF WELL EVACUATION: BAILER/PUMP/ OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 15 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW ✓ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	9.36	7.28	0.406	1.3	7.51	17.90	43	
1223	9.88	7.10	0.307	1.3	7.34	17.90	97	
1228	10.38	7.10	0.367	1.2	7.22	17.94	97	
1233	10.85	7.10	0.369	1.2	7.08	17.92	98	

1218



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-35
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE N/A
 FIELD PERSONNEL TLH WEATHER CONDITIONS 45° Sunny

TOTAL WELL DEPTH (TWD) ~~24.5~~ 24.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL ~~8.5-24.5~~ 19.5-24.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.57
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 15.93
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.61 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 7.83 FIVE STANDING WELL VOLUMES = 13.05

METHOD OF WELL EVACUATION: BAILER/PUMP OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: .5 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X _____

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW ✓ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	9.03	7.12	0.650	2.4	7.94	17.30	98	
1207	9.25	7.40	0.489	2.6	9.33	17.71	86	
1212	9.41	7.43	0.446	1.9	7.86	17.89	83	
1217	9.59	7.42	0.444	1.8	7.74	18.02	84	

1202



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-10D
 SITE NAME Duke Energy-Spartanburg DATE 2/25/13 TIME OF SAMPLE 1110
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Cloudy, 40°F

TOTAL WELL DEPTH (TWD) 39 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 34-39 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 10.62
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 28.38

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 4.65 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 13.95 FIVE STANDING WELL VOLUMES = 23.25

METHOD OF WELL EVACUATION: ~~BAILER~~ ~~PUMP~~ / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.25 GAL. FLOW RATE 150 mL/min

WELL TYPE: ~~PLUG~~ ~~PLUG~~ ~~PLUG~~ ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.62	5.61	0.146	5.1	4.42	10.35	171	1050
7 min	10.70	6.50	0.167	2.7	1.97	10.74	192	1057
12 min	11.04 ^{11.20} RM	6.39	0.163	2.9	1.82	11.07	199	1102
16 min	11.23	6.35	0.162	2.2	1.67	11.29	202	1106
20 min	11.44	6.32	0.161	2.5	1.61	11.45	205	1110

TLH

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-12D
 SITE NAME Duke Energy-Spartanburg DATE 2/27/13 TIME OF SAMPLE 0910
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny, 60°F

TOTAL WELL DEPTH (TWD) 35.42 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 30.42-35.42 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 3.64
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 31.78
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 5.1 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = NA FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.025 RM GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

LOCKING CAP YES NO
 PROTECTIVE POST/ABUTMENT YES NO
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

COMMENTS

Completed sampling @ 0910, pulled tubing. Tubing not within screened interval, resample w/ tubing in screened interval, leave sample time as 0910

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	4.35	4.48	0.294	14.0	10.52	4.59	109	TIME 0847
4 min	4.49	6.58	0.285	12.3	13.23	5.69	143	0853
11 min	4.66	6.85	0.278	6.4	11.95	7.50	156	0900
15 min	4.66	6.84	0.273	4.2	11.56	8.29	161	0905
21 min	4.65	6.80	0.267	1.7	10.94	9.32	168	0910
Initial	4.91	6.14	0.256	2.2	1.25	15.41	158	1031
5 min	5.48	6.32	0.252	2.3	0.00	15.38	129	1036
9 min	5.73	6.39	0.248	0.8	0.00	15.53	120	1040
17 min	5.81	6.36	0.246	0.4	0.00	15.76	104	1048
23 min	5.79	6.34	0.246	0.2	0.00	17.79	94	1054
								Sample @ 1055/leave sample time as 0910



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOC
 SITE NAME Duke Energy-Spartanburg DATE 2-27-13 TIME OF SAMPLE 1140
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny 52°

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) _____

LENGTH OF WATER COLUMN (LWC) = TWD – DGW = _____
 CASING DIAMETER 4 IN.

ONE STANDING WELL VOLUME = _____ gal.
 (NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = _____ FIVE STANDING WELL VOLUMES = _____

METHOD OF WELL EVACUATION: BAILER (PUMP)/ OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 5 GAL. FLOW RATE 150 mL/min

WELL TYPE: (FLUSH MOUNT) ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading		6.31	8.73	2.2	3.41	13.32	170	
1126		6.15	8.74	2.2	0	13.72	160	
1131		6.12	8.72	2.1	0	13.74	154	
1136		6.10	8.69	2.1	0	13.81	152	

1121

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5S
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE 1400
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 60°F

TOTAL WELL DEPTH (TWD) ~~28~~ 25 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL ~~2-13~~ 20-25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.05
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 16.95

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.8 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = FIVE STANDING WELL VOLUMES =

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE X HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.48	6.39	0.55	9.7	7.49	17.82	123	1344
8 minutes	12.92	6.52	0.44	4.8	2.15	18.23	102	1352
12 minutes	12.72	6.64	0.41	5.2	2.28	18.31	97	1356
18 minutes	12.85	6.69	0.39	2.4	2.43	18.39	92	1402





MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-10S
 SITE NAME Duke Energy-Spartanburg DATE 2/28/13 TIME OF SAMPLE 0830
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny 45°F in shade

TOTAL WELL DEPTH (TWD) 158.87 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 20-25 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 6.87
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 16.13

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.5 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = FIVE STANDING WELL VOLUMES =

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 150 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X _____

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.41	6.92	0.741	38.4	13.58	4.20	13	0814
4 min	11.38	6.88	1.04	29.5	8.29	4.81	2	0818
11 min	12.54	6.16	6.64	34.6	7.72	6.28	107	0825
15 min	13.65	6.30	14.1	31.7	9.94	7.05	182	0829
20 min	15.00	6.28	14.7	34.4	8.28	8.03	199	0834
25 min	16.15	6.22	15.8	35.9	7.30	8.06	216	0839, slow purge
31 min	16.58	6.31	15.3	29.8	6.79	9.58	217	0845
34 min	16.58	6.19	15.3	27.7	6.21	9.76	230	0849

accurate slow purge

APPENDIX G

**PWR GEOCHEMICAL MONITORING SUMMARY DURING SODIUM HYDROXIDE
INJECTION**

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OR-3S	1	3/5/2013	7:00	NA	0.47	139.2	15.98	10.420	8.43
		3/5/2013	11:50	NA	1.23	165.4	18.87	11.600	6.60
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.22
		3/6/2013	12:30	6.96	5.07	-70.0	19.21	0.792	6.70
		3/7/2013	8:20	7.01	4.98	-242.4	20.56	0.771	8.30
		3/7/2013	9:15	6.92	4.72	-150.5	19.22	1.713	NM
	2	3/11/2013	11:00	7.99	5.30	61.5	18.60	3.594	8.43
		3/11/2013	15:30	11.02	10.12	294.1	19.21	15.860	7.30
		3/12/2013	7:30	10.25	10.07	208.5	18.91	12.560	8.28
		3/12/2013	12:40	11.62	9.40	-114.2	19.05	23.080	6.65
		3/12/2013	17:00	11.86	10.85	-79.9	19.26	25.210	6.78
		3/13/2013	7:45	13.13	9.05	-143.4	19.01	45.610	8.30
		3/13/2013	13:40	12.97	9.01	-105.0	19.17	52.860	7.88
		3/14/2013	7:40	13.26	8.72	-50.1	19.20	67.260	NM
		3/14/2013	14:00	13.43	9.37	-68.5	19.10	74.690	NM
		3	3/18/2013	11:00	12.67	14.00	-85.0	19.24	81.130
	3/19/2013		7:30	12.65	10.12	-132.1	18.94	72.180	8.70
	3/19/2013		17:40	13.04	13.84	-120.3	19.16	71.640	NM
	3/20/2013		8:00	13.35	15.01	-153.1	19.30	75.050	NM
	3/20/2013		18:00	13.31	15.46	-155.0	19.45	81.300	NM
	3/21/2013		9:30	13.47	12.30	-95.2	19.40	90.000	NM
3/21/2013	12:00		12.98	13.01	-62.0	19.40	89.600	NM	
3/21/2013	14:00		13.74	14.02	-102.1	19.33	89.900	NM	
OR-5S	1	3/5/2013	7:00	NA	0.60	2.2	18.73	1.033	8.64
		3/5/2013	11:50	NA	0.87	40.5	18.70	0.991	7.40
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.35
		3/6/2013	12:30	6.42	0.67	-85.0	18.03	0.434	7.80
		3/7/2013	8:20	6.46	0.51	-253.3	18.55	0.421	8.55
		3/7/2013	9:15	6.26	1.35	-131.5	17.58	1.322	NM
	2	3/11/2013	11:00	6.58	0.78	51.5	18.48	0.083	8.65
		3/11/2013	15:30	6.13	1.18	385.1	18.74	1.175	8.45
		3/12/2013	7:30	7.11	1.36	207.1	18.46	0.882	8.43
		3/12/2013	12:40	7.40	0.78	-363.2	18.65	0.907	7.75
		3/12/2013	17:00	8.50	1.38	-335.5	18.73	0.934	7.31
		3/13/2013	7:45	7.68	0.99	-390.6	18.59	1.025	8.48
		3/13/2013	13:40	5.90	0.63	-364.0	18.70	0.659	7.90
		3/14/2013	7:40	7.91	0.84	-353.0	18.61	0.942	NM
	3	3/14/2013	14:00	7.72	2.18	-369.4	18.67	0.913	NM
		3/18/2013	11:00	5.89	2.22	-348.0	18.60	1.054	NM
		3/19/2013	7:30	6.43	0.34	-411.6	18.67	1.034	8.71
		3/19/2013	17:40	7.28	0.43	-343.2	18.71	0.971	NM
		3/20/2013	8:00	5.90	0.24	-409.0	18.57	1.018	NM
		3/20/2013	18:00	5.80	0.23	-408.0	18.71	0.998	NM
		3/21/2013	9:30	5.70	0.61	-391.0	16.50	1.033	NM
3/21/2013		12:00	6.97	0.96	-388.0	18.70	0.991	NM	
3/21/2013	14:00	6.98	1.68	-391.6	18.76	0.930	NM		

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OR-10S	1	3/5/2013	7:00	NA	0.76	183.8	18.17	34.300	9.63
		3/5/2013	11:50	NA	0.97	184.0	18.34	35.770	9.50
		3/6/2013	7:15	NM	NM	NM	NM	NM	9.50
		3/6/2013	12:30	6.01	4.16	67.9	17.00	33.100	8.80
		3/7/2013	8:20	6.00	1.50	-138.5	17.32	31.300	9.57
		3/7/2013	9:15	5.88	2.23	-63.3	16.27	31.590	NM
	2	3/11/2013	11:00	5.53	1.43	187.8	17.94	31.620	9.65
		3/11/2013	15:30	5.39	1.40	448.4	18.18	29.820	9.55
		3/12/2013	7:30	5.42	2.23	282.9	17.83	30.090	9.48
		3/12/2013	12:40	6.21	10.93	-152.0	18.34	31.750	9.08
		3/12/2013	17:00	6.59	7.25	-29.5	18.37	32.540	8.87
		3/13/2013	7:45	6.03	3.75	-206.5	18.24	33.050	9.55
		3/13/2013	13:40	5.37	2.80	-207.0	18.20	33.410	9.30
		3/14/2013	7:40	6.03	2.66	-170.0	18.30	29.310	NM
	3	3/14/2013	14:00	6.25	3.52	-200.5	18.26	29.960	NM
		3/18/2013	11:00	5.44	3.70	-178.0	18.25	29.500	NM
		3/19/2013	7:30	5.23	1.70	-268.8	18.24	30.560	9.75
		3/19/2013	17:40	5.58	0.94	-201.1	18.21	30.000	NM
3/20/2013		8:00	5.14	1.00	-312.8	17.99	30.280	NM	
3/20/2013		18:00	5.19	0.83	-333.0	18.00	30.270	NM	
3/21/2013		9:30	5.00	2.21	-311.0	17.52	30.400	NM	
3/21/2013		12:00	5.33	1.00	-244.0	18.14	30.000	NM	
OR-3W	1	3/21/2013	14:00	5.22	1.36	-316.1	18.23	29.800	NM
		3/5/2013	7:00	NA	5.97	122.9	18.07	0.735	8.75
		3/5/2013	11:50	NA	0.54	167.0	18.87	8.760	6.62
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.50
		3/6/2013	12:30	7.37	6.56	-70.0	19.00	0.829	7.20
		3/7/2013	8:20	7.36	6.51	-191.3	21.42	0.818	8.60
	2	3/7/2013	9:15	6.35	2.15	-140.2	19.03	5.830	NM
		3/11/2013	11:00	6.07	1.79	247.3	19.12	7.598	8.75
		3/11/2013	15:30	6.07	1.89	370.4	19.72	8.683	7.85
		3/12/2013	7:30	5.96	2.28	295.3	19.50	8.005	8.60
		3/12/2013	12:40	6.83	3.30	-64.0	19.01	12.290	7.15
		3/12/2013	17:00	6.18	2.95	210.4	18.99	13.280	7.10
		3/13/2013	7:45	5.79	2.81	-76.9	18.92	15.310	8.60
		3/13/2013	13:40	7.01	2.81	-71.8	19.20	14.660	8.15
	3	3/14/2013	7:40	5.82	4.77	-116.0	18.88	15.660	NM
		3/14/2013	14:00	6.15	4.72	-41.8	19.15	15.910	NM
		3/18/2013	11:00	6.08	6.00	117.0	19.30	17.300	NM
		3/19/2013	7:30	4.36	2.99	-21.1	19.21	17.670	8.95
3/19/2013		17:40	5.41	10.15	-84.7	19.45	18.390	NM	
3/20/2013		8:00	5.42	6.87	-113.2	19.30	19.340	NM	
3/20/2013		18:00	5.14	5.38	-89.0	19.44	19.770	NM	
3/21/2013		9:30	5.70	6.00	-84.0	19.31	20.400	NM	
3/21/2013	12:00	5.06	7.38	-105.0	19.41	19.600	NM		
3/21/2013	14:00	5.31	8.20	-152.7	20.01	18.510	NM		

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OR-5W	1	3/5/2013	7:00	NA	0.60	182.2	18.75	4.341	8.68
		3/5/2013	11:50	NA	0.67	172.0	18.66	4.900	7.00
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.35
		3/6/2013	12:30	6.55	4.47	-58.2	17.70	1.609	7.38
		3/7/2013	8:20	6.98	5.83	-192.0	17.86	0.993	8.60
		3/7/2013	9:15	5.88	2.64	-152.7	18.50	4.046	NM
	2	3/11/2013	11:00	5.72	2.25	313.0	17.48	5.260	8.68
		3/11/2013	15:30	5.91	2.20	431.8	18.56	4.095	7.85
		3/12/2013	7:30	5.79	1.85	310.2	18.52	4.225	8.55
		3/12/2013	12:40	6.88	3.03	-249.0	18.61	5.200	7.20
		3/12/2013	17:00	5.98	2.36	-214.4	18.63	5.367	7.23
		3/13/2013	7:45	5.69	1.55	-284.2	18.52	5.937	8.60
		3/13/2013	13:40	6.43	1.40	-256.0	18.60	5.658	8.13
		3/14/2013	7:40	5.76	1.88	-287.0	18.61	5.208	NM
	3	3/14/2013	14:00	6.18	1.08	-270.1	18.59	5.301	NM
		3/18/2013	11:00	5.66	1.20	-240.0	18.70	6.170	NM
		3/19/2013	7:30	5.29	1.37	-335.0	18.69	5.961	NM
		3/19/2013	17:40	5.46	1.58	-268.7	18.68	6.250	NM
3/20/2013		8:00	5.49	0.40	-289.6	18.84	6.430	NM	
3/20/2013		18:00	5.45	0.31	-304.0	18.89	6.518	NM	
3/21/2013		9:30	5.62	0.56	-284.0	18.70	6.500	NM	
3/21/2013		12:00	5.13	0.35	-307.0	18.72	6.400	NM	
OR-10W	1	3/21/2013	14:00	5.30	0.53	-322.9	18.81	6.435	NM
		3/5/2013	7:00	NA	0.59	323.4	18.21	17.270	8.58
		3/5/2013	11:50	NA	0.55	216.0	18.22	13.800	7.25
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.40
		3/6/2013	12:30	5.76	5.80	-36.3	16.31	1.197	7.47
		3/7/2013	8:20	6.89	6.56	-186.5	16.07	0.891	8.55
	2	3/7/2013	9:15	6.54	5.85	-149.9	16.54	2.075	NM
		3/11/2013	11:00	5.76	2.47	313.0	17.48	5.260	8.68
		3/11/2013	15:30	5.82	2.06	434.8	17.66	4.115	7.93
		3/12/2013	7:30	5.73	2.18	317.7	17.62	5.063	8.48
		3/12/2013	12:40	6.92	3.30	-98.2	18.15	17.760	7.30
		3/12/2013	17:00	6.12	0.98	143.0	18.13	18.540	7.32
		3/13/2013	7:45	5.88	1.45	-114.5	18.11	19.480	8.55
		3/13/2013	13:40	6.22	0.98	-148.0	18.00	16.480	8.10
	3	3/14/2013	7:40	5.85	1.61	-229.0	18.14	9.383	NM
		3/14/2013	14:00	6.08	1.64	-122.5	18.07	18.010	NM
		3/18/2013	11:00	5.72	1.20	-177.0	18.10	12.800	NM
		3/19/2013	7:30	5.86	2.31	-301.4	17.86	20.820	8.73
3/19/2013		17:40	5.85	1.51	-232.7	18.20	16.470	NM	
3/20/2013		8:00	6.25	0.47	-313.2	18.19	19.560	NM	
3/20/2013		18:00	8.71	0.32	-307.0	18.23	22.610	NM	
3/21/2013		9:30	8.81	0.40	-276.0	18.12	23.400	NM	
3/21/2013	12:00	7.58	0.34	-302.0	18.13	19.500	NM		
3/21/2013	14:00	7.52	0.48	-330.0	18.24	18.180	NM		

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
MW-13 ISOC	1	3/5/2013	7:00	NA	1.56	178.1	17.51	8.957	5.85
		3/5/2013	11:50	NA	0.66	218.0	17.43	8.570	5.34
		3/6/2013	7:15	NM	NM	NM	NM	NM	6.90
	2	3/11/2013	11:00	10.05	1.04	112.6	16.42	10.550	6.02
		3/12/2013	7:30	9.07	1.12	184.2	15.67	9.563	5.95
		3/12/2013	12:40	12.57	0.29	-261.3	17.85	19.120	5.65
		3/12/2013	17:00	12.02	0.43	-214.0	17.82	19.250	5.50
		3/13/2013	7:45	12.61	0.62	-261.8	17.84	22.490	5.90
		3/13/2013	13:40	11.06	0.48	-330.0	17.74	12.700	5.80
		3/14/2013	7:40	12.14	0.88	-313.0	17.80	13.620	NM
	3/14/2013	14:00	12.50	0.74	-247.6	17.86	22.240	NM	
	3	3/18/2013	11:00	9.45	0.70	-363.0	17.10	9.800	NM
		3/19/2013	7:30	9.72	0.21	-396.2	17.71	10.380	6.11
		3/19/2013	17:40	11.56	0.46	-366.7	17.86	12.620	NM
		3/20/2013	8:00	8.54	0.30	-395.6	17.72	9.117	NM
		3/20/2013	18:00	10.57	0.31	-389.0	17.93	11.090	NM
3/21/2013		9:30	9.80	0.41	-366.0	17.80	10.000	NM	
3/21/2013		12:00	8.99	0.23	-378.0	17.20	9.300	NM	
3/21/2013	14:00	9.92	0.34	-385.0	17.93	10.830	NM		
Shallow Observation wells									
MW-13S	1	3/5/2013	7:00	NA	1.13	256.7	15.99	57.130	6.80
		3/5/2013	11:50	NA	0.56	220.0	16.13	20.000	6.00
		3/6/2013	7:15	NM	NM	NM	NM	NM	6.75
Discontinued monitoring due to the presence of free product									
OS-5N	1	3/5/2013	7:00	NA	5.30	254.0	17.02	3.230	7.23
	2	3/13/2013	7:45	6.74	5.40	-299.5	16.17	3.977	7.45
		3/13/2013	13:40	6.04	8.40	-256.0	15.50	1.032	7.45
		3/14/2013	7:40	6.34	4.52	208.7	15.69	1.707	NM
		3/14/2013	14:00	6.49	4.20	221.0	15.99	5.051	NM
	3	3/18/2013	11:00	6.50	7.99	-264.0	15.50	1.362	NM
		3/19/2013	7:30	6.47	5.52	-312.6	15.64	1.011	8.50
		3/19/2013	17:40	6.95	5.39	-285.5	15.71	2.833	NM
		3/20/2013	8:00	6.54	4.62	-348.0	15.70	5.191	NM
		3/20/2013	18:00	6.72	4.30	-362.0	16.19	7.981	NM
3/21/2013		14:00	7.13	5.50	-334.0	15.55	1.492	NM	
OS-5E	1	3/5/2013	7:00	NA	23.00	183.9	15.85	2.710	7.57
	2	3/13/2013	7:45	8.16	20.02	-227.3	15.36	2.373	7.55
		3/13/2013	13:40	7.51	21.66	141.0	14.82	1.891	7.30
		3/14/2013	7:40	7.23	19.03	200.8	14.51	1.812	NM
		3/14/2013	14:00	7.70	17.70	210.0	14.80	1.824	NM
	3	3/18/2013	11:00	7.15	22.60	-146.0	14.70	1.995	NM
		3/19/2013	7:30	6.89	19.17	-270.6	14.87	1.966	7.75
		3/19/2013	17:40	6.97	22.22	-233.7	15.23	2.319	NM
		3/20/2013	8:00	6.92	19.21	-285.0	14.97	1.927	NM
		3/20/2013	18:00	6.60	19.51	-323.0	15.31	1.889	NM
3/21/2013		14:00	7.01	20.49	-288.1	15.17	1.791	NM	

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OS-10E	1	3/5/2013	7:00	NA	3.30	-17.7	15.13	0.518	7.15
	2	3/13/2013	7:45	7.61	1.36	-335.4	14.90	0.706	7.23
		3/13/2013	13:40	7.19	1.71	113.0	15.00	0.537	6.93
		3/14/2013	7:40	6.95	1.80	169.1	14.26	0.498	NM
		3/14/2013	14:00	6.93	2.30	213.0	14.20	0.490	NM
	3	3/18/2013	11:00	6.92	4.09	-287.0	14.60	0.599	NM
		3/19/2013	7:30	6.71	1.80	-378.3	14.86	0.590	7.35
		3/19/2013	17:40	6.69	1.43	-348.1	14.61	0.568	NM
		3/20/2013	8:00	6.56	2.07	-380.0	14.60	0.542	NM
		3/20/2013	18:00	6.03	2.68	-391.0	14.88	0.536	NM
		3/21/2013	14:00	6.81	2.32	-363.0	14.61	0.514	NM
OS-5S	1	3/5/2013	7:00	NA	13.77	26.1	18.09	25.310	8.15
	2	3/13/2013	7:45	10.18	18.62	-134.8	17.48	28.490	7.96
		3/13/2013	13:40	9.96	na	258.7	17.40	17.430	7.80
		3/14/2013	7:40	10.30	15.17	202.8	17.41	20.590	NM
		3/14/2013	14:00	10.71	15.70	214.0	16.40	18.660	NM
	3	3/18/2013	11:00	10.27	14.20	-182.0	17.02	22.520	NM
		3/19/2013	7:30	9.75	17.17	-217.7	17.21	24.010	8.25
		3/19/2013	17:40	9.73	17.01	-191.9	16.84	26.810	NM
		3/20/2013	8:00	10.05	16.40	-250.0	17.12	24.750	NM
		3/20/2013	18:00	9.99	16.71	-283.0	17.24	25.580	NM
		3/21/2013	14:00	10.15	18.22	-258.0	17.23	25.190	NM
OS-10S	1	3/5/2013	7:00	NA	1.43	286.1	18.06	5.822	8.18
	2	3/13/2013	7:45	5.85	3.60	-211.5	17.32	5.425	7.85
		3/13/2013	13:40	5.44	3.91	-218.0	17.40	7.750	7.85
		3/14/2013	7:40	5.34	0.79	137.3	16.56	3.258	NM
		3/14/2013	14:00	5.84	1.55	268.0	16.30	2.940	NM
	3	3/18/2013	11:00	6.21	5.01	-237.0	17.41	9.330	NM
		3/19/2013	7:30	5.56	0.74	-303.2	17.42	7.081	8.35
		3/19/2013	17:40	6.37	1.21	-251.7	17.47	7.271	NM
		3/20/2013	8:00	5.90	2.00	-323.6	17.09	4.336	NM
		3/20/2013	18:00	6.25	3.00	-351.0	17.59	7.381	NM
		3/21/2013	14:00	5.77	1.05	-336.0	17.35	6.001	NM
OS-15S	1	3/5/2013	7:00	NA	1.00	-15.9	16.51	0.403	8.25
		3/5/2013	11:50	NA	0.80	34.8	16.78	0.406	7.30
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.14
		3/6/2013	12:30	6.32	0.40	-2.0	16.60	0.405	7.30
		3/7/2013	8:20	6.29	0.25	-210.4	16.72	0.386	8.25
	2	3/11/2013	11:00	6.38	0.25	168.7	16.60	0.397	8.35
		3/12/2013	7:30	7.06	0.26	196.2	16.50	0.400	8.20
		3/12/2013	12:40	6.26	0.27	-3.9	16.38	0.410	7.36
		3/13/2013	7:45	8.27	0.46	-380.0	16.22	0.417	8.20
		3/13/2013	13:40	6.90	0.97	171.5	16.15	0.399	7.90
		3/14/2013	7:40	6.47	0.31	133.5	16.28	0.379	NM
	3	3/14/2013	14:00	6.85	0.46	226.0	16.10	0.381	NM
		3/18/2013	11:00	6.29	2.15	-372.0	16.40	0.446	NM
		3/19/2013	7:30	6.71	0.19	-416.0	16.59	0.457	8.35
		3/19/2013	17:40	6.85	0.50	-362.9	16.59	0.481	NM
	3/20/2013	8:00	6.14	0.74	-411.0	16.42	0.469	NM	
	3/20/2013	18:00	6.41	0.92	-415.0	16.64	0.490	NM	
		3/21/2013	14:00	6.16	0.31	-394.0	16.47	0.482	NM

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)	
OS-20S	1	3/5/2013	7:00	NA	0.61	191.5	15.92	1.552	8.31	
		3/5/2013	11:50	NA	0.61	35.3	16.50	5.640	7.42	
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.20	
		3/6/2013	12:30	6.32	1.02	-2.0	15.77	0.826	7.53	
		3/7/2013	8:20	6.27	0.35	-208.5	15.68	0.449	8.30	
	2	3/11/2013	11:00	6.27	0.35	140.5	15.62	0.453	8.42	
		3/12/2013	7:30	6.60	0.27	166.3	15.58	0.484	8.28	
		3/12/2013	12:40	6.96	0.34	8.5	16.25	5.050	7.30	
		3/13/2013	7:45	10.10	0.49	-373.4	15.92	3.410	8.27	
		3/13/2013	13:40	6.62	0.26	-360.0	15.10	0.528	8.00	
		3/14/2013	7:40	6.39	0.50	121.6	15.29	0.421	NM	
	3	3/14/2013	14:00	6.93	0.30	179.0	15.10	0.420	NM	
		3/18/2013	11:00	7.60	0.94	-350.0	15.80	1.560	NM	
		3/19/2013	7:30	8.48	0.13	-413.7	16.19	4.220	8.40	
		3/19/2013	17:40	6.27	0.46	-365.1	15.75	0.967	NM	
3/20/2013		8:00	6.43	0.50	-405.0	15.28	0.577	NM		
OS-25S	1	3/5/2013	7:00	NA	0.62	-73.4	15.80	4.528	8.33	
		3/5/2013	11:50	NA	0.55	28.0	15.59	1.300	7.50	
		3/6/2013	7:15	NM	NM	NM	NM	NM	8.20	
		3/6/2013	12:30	5.41	0.73	-128.0	15.12	0.522	7.62	
		3/7/2013	8:20	5.06	0.30	209.6	15.87	1.221	8.32	
	2	3/11/2013	11:00	5.07	0.43	-35.3	15.77	1.238	8.44	
		3/12/2013	7:30	5.89	0.37	27.5	15.79	1.446	8.28	
		3/12/2013	12:40	5.60	1.05	-10.2	15.77	1.453	7.40	
		3/13/2013	7:45	7.11	0.75	-391.2	15.62	1.908	8.30	
		3/13/2013	13:40	5.46	0.73	-360.0	15.40	1.680	8.05	
		3/14/2013	7:40	5.55	0.56	51.5	15.72	2.424	NM	
	3	3/14/2013	14:00	7.16	0.71	-369.3	15.89	3.056	NM	
		3/18/2013	11:00	6.11	1.18	-350.0	15.88	3.310	NM	
		3/19/2013	7:30	6.31	0.33	-412.9	15.79	3.151	8.75	
		3/19/2013	17:40	5.91	0.40	-371.4	15.61	2.838	NM	
3/20/2013		8:00	5.94	0.49	-401.5	15.49	2.845	NM		
Chinquapin Creek (South of Pilot Area)	1	3/20/2013	18:00	5.86	0.67	-405.0	15.75	2.828	NM	
		3/21/2013	14:00	6.13	0.30	-397.0	15.55	2.723	NM	
		3/5/2013	7:00	na	9.10	150.3	12.75	0.122	N/A	
	2	3/6/2013	14:40	7.05	11.95	-62.2	11.80	0.115	N/A	
		3/7/2013	8:20	7.35	6.85	-192.4	11.85	0.126	N/A	
		3/11/2013	11:00	8.31	10.75	193.2	11.65	0.124	N/A	
		3/12/2013	7:30	6.45	9.97	23.5	13.22	0.072	N/A	
		3/13/2013	7:45	7.03	9.34	-309.7	10.28	0.115	N/A	
	3	3/14/2013	7:40	6.30	13.06	-293.8	7.84	0.126	N/A	
		3/18/2013	11:00	8.20	17.40	-320.0	11.90	0.138	N/A	
		3/19/2013	7:30	6.81	8.70	-337.1	10.24	0.089	N/A	
		3/20/2013	8:00	7.97	8.51	-345.0	10.49	0.121	N/A	
			3/20/2013	18:00	8.48	8.91	-303.0	14.47	0.127	N/A

Appendix G. PWR Geochemical Monitoring Summary During Sodium Hydroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
Chinquapin Creek (Upstream at Bridge)	1	3/5/2012	7:00	na	9.06	162.4	12.35	0.122	NA
		3/6/2013	14:40	6.93	11.86	-57.0	11.86	0.102	N/A
		3/7/2013	8:20	6.99	6.76	185.1	11.71	0.116	N/A
	2	3/11/2013	11:00	8.07	10.98	193.2	11.65	0.124	N/A
		3/12/2013	7:30	6.59	9.77	37.3	13.21	0.072	N/A
		3/13/2013	7:45	6.60	9.35	-308.9	10.25	0.118	N/A
		3/14/2013	7:40	6.27	12.45	-303.8	7.91	0.113	N/A
	3	3/18/2013	11:00	8.05	12.85	-326.0	11.08	0.123	N/A
		3/19/2013	7:30	6.67	8.92	-333.0	10.25	0.084	N/A
		3/20/2013	8:00	7.96	9.22	-339.0	10.43	0.114	N/A
		3/20/2013	18:00	8.53	8.94	-340.0	14.07	0.155	N/A

Notes:

N/M - not measured

uS/cm - micro Siemens per centimeter

mV - millivolts

mg/L = milligrams per liter

ft. BTOC= ft. below top of casing

N/A= not applicable

APPENDIX H

FIELD OBSERVATIONS DURING MPE OF WELL MW-13S

Location Duke-Spartanburg Date 7/31/13
 Project / Client MPE

0700 - Arrive Knoxville office (JP.)

0725 - Depart Knoxville office,

0800 - Pick up 5x5 4' 1" casing
 from DSI,

1130 - Pickup Generator

1200 - Onsite,

1430 - Enviro Equipment onsite with trailers,
 Brakes on trailer seem to be locked up.

1715 - MPE Unit operational, Test
 run till knock out tank fills up,

well ~ 10 inHg

1745 - KO tank pump works, Turn off
 system, End of day,

0

Location Duke-Spartanburg Date 8/1/13
 Project / Client MPE

0655 - Onsite. Conduct HHS meeting

0830 - Begin MPE, take water
 level measurements, Bailed MW-135.
 Water is clear minus 1/2" of free
 product at bottom dived.

0905 - Generator shuts off, Resbot
 call initiated.

1050 - Quit MPE per phone
 call with WPT, Total removed ~ 280 gals

1250 - Bail MW-135, Water
 level back to static very

Clear water, Per phone call with
 WPT, End of Event, Pack up

1500 - Offsite with generator, Env.
 Equipment to pickup MPE trailer
 tomorrow.

1530 - Stop generator off.

1615 - Back to Knoxville office,
 ordered truck,

Pre/Post Test Water (Product) levels

	Time	Extraction		Monitor							
	24 hrs	MW-135	MW-13 ISOC	OR3W	OR5W	OR10W	OR3S	OR5S	OR10S	OS20S	OS25S
Pre Test	8:30	6.8, 7.2, 8.6	6.19	8.73	8.67	8.59	8.28	8.49	9.50	8.10	8.15
Post Test											

MPE Test Data (15 min intervals)

Elapsed (mins)	Time	24hr	C _{in} (H ₂ O)/in(H ₂ O)		Wellhead Vacuum						INLET		Exhaust		Water Gal	
			MW-135	MW-13 ISOC	OR3W	OR5W	OR10W	OR3S	OR5S	Machine	OR10S	Vacuum (Hg)	Temp (F)	Pitot (WC)		Temp (F)
0	8:30		8/40-60	MW-13 ISOC	OR3W	OR5W	OR10W	OR3S	OR5S	19	OR10S	10-12		OS20S	8.5255	
15	8:45		8/50							19.5		10				
30	8:45		8/60							20		10-12				
45	8:45									21		10-12				
60 (1 hr)	8:45		8/50							21.5		10-12				
75	8:45		8/50-65							24		10-12				
90	8:45		8/10/60							24		10-12				
105	8:45		8/60		9.00	10.1	9.58	10.15	9.58	8.9	9.85	10-12	9.09	9.15		
120 (2 hrs)	8:45		8/60							25		10				
135	8:45		Per WPT	Shutdown												
150																
165																
180 (3 hrs)																
195																
210																
225																
240 (4 hrs)																
255																
270																
285																
300 (5 hrs)																
315																
330																
345																
360 (6 hrs)																
375																
390																
405																
420 (7 Hrs)																
435																
450																
465																
480 (8 Hrs)																

entire 10 tank - 55 gal intake
 280 total - 55 = 225 backlog

Comments

APPENDIX I

**PWR GEOCHEMICAL MONITORING SUMMARY DURING HYDROGEN PEROXIDE
INJECTION**

Appendix I. PWR Geochemical Monitoring Summary During Hydrogen Peroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OR-3S	Peroxide Test	8/15/2013	7:15	6.34	2.35	463.2	17.99	4.157	NM
		8/15/2013	14:15	6.44	3.05	425.1	17.91	3.960	NM
	1	8/19/2013	12:48	6.52	3.14	181.9	18.12	4.508	7.96
		8/19/2013	17:05	6.43	3.68	292.7	18.17	4.285	NM
		8/20/2013	10:00	6.52	7.14	236.0	18.17	5.176	NM
		8/20/2013	15:40	6.33	20.65	416.8	18.30	4.339	NM
		8/21/2013	7:15	6.46	22.25	335.5	18.65	4.874	8.36
		8/21/2013	17:00	6.56	39.33	438.2	18.85	4.878	4.95
	2	8/26/2013	10:00	6.56	30.89	418.6	18.80	8.055	8.30
		8/26/2013	17:20	6.74	27.60	415.8	18.72	6.657	3.75
		8/27/2013	7:20	6.73	23.55	313.6	18.83	6.311	8.89
		8/27/2013	17:00	6.64	33.69	335.1	18.97	6.485	6.47
		8/28/2013	7:45	6.60	36.50	406.6	19.42	7.875	9.19
		8/28/2013	17:00	6.71	33.95	368.3	19.70	8.909	6.70
	3	8/29/2013	7:15	6.73	34.95	415.6	19.97	10.610	9.28
		9/3/2013	11:10	6.32	30.34	348.8	19.16	12.310	8.69
		9/3/2013	16:00	6.28	33.96	437.6	19.22	11.240	5.78
9/4/2013		7:15	6.48	26.31	394.8	19.54	10.090	8.89	
9/4/2013		17:00	6.43	30.31	347.1	19.68	8.353	5.56	
9/5/2013	10:50	6.37	26.95	350.7	20.11	9.240	9.42		
OR-5S	Peroxide Test	8/15/2013	7:15	5.88	0.42	300.6	17.80	1.873	NM
		8/15/2013	14:15	5.95	0.79	335.5	17.80	1.915	NM
	1	8/19/2013	12:48	5.70	0.41	160.3	17.73	2.114	8.32
		8/19/2013	17:03	5.67	0.72	286.1	17.82	2.088	NM
		8/20/2013	10:00	6.18	0.79	225.0	17.93	1.740	NM
		8/20/2013	15:40	6.25	1.25	410.5	18.03	1.739	NM
		8/21/2013	7:15	5.83	0.59	269.6	18.13	1.638	8.68
		8/21/2013	17:00	6.24	1.12	413.9	18.00	1.666	5.73
	2	8/26/2013	10:00	6.22	1.10	377.3	18.35	1.690	8.49
		8/26/2013	17:20	6.55	1.29	411.4	18.36	1.632	5.95
		8/27/2013	7:20	6.15	0.85	282.7	18.28	1.721	8.72
		8/27/2013	17:00	6.71	2.20	292.8	18.36	1.621	7.09
		8/28/2013	7:45	6.20	1.15	340.3	18.52	1.656	9.34
		8/28/2013	17:00	6.16	0.84	367.4	18.30	1.775	7.16
	3	8/29/2013	7:15	6.47	1.45	410.5	18.59	1.737	9.42
		9/3/2013	11:10	6.30	0.54	333.0	18.76	1.797	8.75
		9/3/2013	16:00	6.03	0.83	380.7	18.84	1.799	7.66
9/4/2013		7:15	6.35	0.51	371.8	18.74	1.750	9.01	
9/4/2013		17:00	6.38	0.33	343.3	19.01	1.737	7.23	
9/5/2013	10:50	6.37	0.48	317.6	18.99	1.751	9.22		
OR-10S	Peroxide Test	8/15/2013	7:15	3.34	0.58	533.3	17.62	23.82	NM
		8/15/2013	NA	NM	NM	NM	NM	NM	NM
	1	8/19/2013	12:25	3.35	1.22	488.2	17.60	25.33	9.13
		8/19/2013	17:00	3.47	1.10	452.1	17.63	25.51	NM
		8/20/2013	10:00	3.31	0.86	488.0	17.49	26.45	NM
		8/20/2013	15:40	3.39	2.04	518.1	17.74	25.53	NM
		8/21/2013	7:15	3.41	1.49	566.1	20.94	24.00	9.53
		8/21/2013	17:00	3.38	1.37	518.4	17.81	24.28	8.80
	2	8/26/2013	10:00	3.32	1.30	536.1	17.76	23.50	9.47
		8/26/2013	17:20	3.47	1.58	501.9	17.87	23.34	7.81
		8/27/2013	7:20	3.46	1.60	537.4	17.86	23.50	9.68
		8/27/2013	17:00	3.53	2.45	525.8	17.74	23.40	8.80
		8/28/2013	7:45	3.42	2.22	535.0	17.76	23.62	9.90
		8/28/2013	17:00	3.39	1.80	504.0	17.79	23.40	8.48
	3	8/29/2013	7:15	3.36	1.39	511.7	17.92	23.31	10.11
		9/3/2013	11:10	3.73	0.96	484.6	21.77	22.63	9.80
		9/3/2013	16:00	3.62	1.42	530.3	21.78	22.64	9.34
9/4/2013		7:15	3.75	0.82	511.9	18.02	22.89	9.92	
9/4/2013		17:00	3.68	0.65	502.7	17.76	23.06	9.06	
9/5/2013	10:50	3.73	1.22	517.4	18.04	22.90	10.10		

Appendix I. PWR Geochemical Monitoring Summary During Hydrogen Peroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OR-3W	Peroxide Test	8/15/2013	7:15	3.85	13.02	511.4	18.14	27.40	NM
		8/15/2013	14:15	5.98	22.30	391.5	18.32	24.73	NM
	1	8/19/2013	12:58	5.07	14.32	408.4	18.36	28.40	8.44
		8/19/2013	17:10	3.47	1.10	452.1	17.63	25.51	NM
		8/20/2013	10:00	3.03	7.61	568.0	18.13	31.60	NM
		8/20/2013	15:40	2.97	4.33	588.6	18.19	31.66	NM
		8/21/2013	7:15	3.52	9.01	557.6	18.74	29.95	8.88
		8/21/2013	17:00	4.44	23.25	486.2	18.72	31.69	5.35
	2	8/26/2013	10:00	5.01	21.42	463.3	18.68	32.25	8.76
		8/26/2013	17:20	5.08	24.09	444.0	18.56	32.44	4.06
		8/27/2013	7:20	4.92	22.42	413.9	18.86	32.51	9.42
		8/27/2013	17:00	5.49	30.45	402.2	18.71	33.25	6.86
		8/28/2013	7:45	5.90	38.80	424.7	18.94	33.72	9.59
		8/28/2013	17:00	7.08	34.12	383.6	18.90	36.28	7.24
	3	8/29/2013	7:15	6.73	33.07	425.9	19.50	36.04	9.92
		9/3/2013	11:10	6.03	31.67	371.7	19.53	36.67	9.13
		9/3/2013	16:00	6.03	37.61	309.5	19.62	36.40	8.15
9/4/2013		7:15	6.89	32.91	408.8	19.52	37.69	8.90	
9/4/2013		17:00	7.10	36.50	367.4	19.60	37.71	8.40	
9/5/2013		10:50	8.17	31.15	316.0	19.74	39.98	9.97	
OR-5W	Peroxide Test	8/15/2013	7:15	3.51	1.13	515.1	18.32	18.60	NM
		8/15/2013	14:15	3.82	2.99	471.0	17.85	19.19	NM
	1	8/19/2013	13:10	3.83	2.74	483.1	18.06	20.28	8.38
		8/19/2013	17:13	3.86	1.87	470.1	18.17	20.36	NM
		8/20/2013	10:00	3.73	2.10	479.0	18.08	21.10	NM
		8/20/2013	15:40	3.82	2.92	497.5	18.14	21.39	NM
		8/21/2013	7:15	3.66	1.30	516.9	18.16	20.35	8.35
		8/21/2013	17:00	3.89	3.14	500.5	18.19	20.50	5.39
	2	8/26/2013	10:00	3.70	2.83	494.2	18.29	20.27	8.70
		8/26/2013	17:20	4.05	7.13	479.1	18.48	21.11	4.04
		8/27/2013	7:20	3.70	3.13	492.4	18.44	20.64	9.39
		8/27/2013	17:00	3.85	5.14	461.8	18.46	20.59	6.89
		8/28/2013	7:45	3.69	2.98	478.3	18.36	20.70	9.82
		8/28/2013	17:00	3.88	11.12	477.5	18.59	20.91	6.91
	3	8/29/2013	7:15	3.72	3.57	502.5	18.56	20.65	9.94
		9/3/2013	11:10	3.78	3.56	502.4	19.10	20.95	9.04
		9/3/2013	16:00	3.87	6.12	468.1	19.20	21.31	7.09
9/4/2013		7:15	3.90	3.56	506.4	19.35	21.11	9.18	
9/4/2013		17:00	4.06	5.09	500.1	19.44	21.50	6.94	
9/5/2013		10:50	3.74	2.44	496.5	19.08	21.37	9.89	
OR-10W	Peroxide Test	8/15/2013	7:15	2.87	1.60	566.5	18.18	9.483	NM
		8/15/2013	14:15	3.12	1.95	549.8	18.04	9.796	NM
	1	8/19/2013	13:15	3.64	1.98	524.0	17.98	11.000	8.25
		8/19/2013	17:15	4.74	0.90	438.2	18.11	11.570	NM
		8/20/2013	10:00	5.66	1.07	415.3	17.83	13.350	NM
		8/20/2013	15:40	5.42	1.20	489.5	17.90	13.440	NM
		8/21/2013	7:15	5.34	0.85	499.0	17.95	12.310	8.70
		8/21/2013	17:00	5.25	1.39	508.0	17.87	12.320	5.50
	2	8/26/2013	10:00	4.15	0.73	469.2	17.99	12.240	8.62
		8/26/2013	17:20	3.47	1.90	537.1	18.00	11.280	4.74
		8/27/2013	7:20	3.96	1.26	484.5	18.15	12.180	9.27
		8/27/2013	17:00	3.37	2.51	485.2	18.03	11.260	7.00
		8/28/2013	7:45	4.62	1.46	389.2	17.96	11.520	9.79
		8/28/2013	17:00	4.34	2.00	471.2	17.95	11.740	6.71
	3	8/29/2013	7:15	4.14	2.06	489.9	18.11	11.330	9.85
		9/3/2013	11:10	4.31	3.09	491.8	18.21	12.240	8.95
		9/3/2013	16:00	4.05	5.29	499.4	18.21	11.960	7.23
9/4/2013		7:15	4.39	5.22	489.6	18.56	12.030	9.20	
9/4/2013		17:00	4.94	6.25	486.1	18.17	12.240	7.94	
9/5/2013		10:50	4.74	5.99	422.2	18.31	11.920	9.80	

Appendix I. PWR Geochemical Monitoring Summary During Hydrogen Peroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
MW-13 ISOC	Peroxide Test	8/15/2013	7:15	6.59	0.16	-39.0	18.43	2.400	NM
		8/15/2013	14:15	3.38	2.30	434.7	17.51	2.461	NM
	1	8/19/2013	13:19	6.65	0.81	-27.3	18.42	3.004	5.82
		8/19/2013	17:20	6.60	0.45	-23.2	18.44	3.260	NM
		8/20/2013	10:00	6.18	1.65	45.2	19.03	2.609	NM
		8/20/2013	15:40	6.63	27.00	385.0	22.65	2.395	NM
		8/21/2013	7:15	7.88	0.38	-190.3	18.27	4.447	6.05
		8/21/2013	17:00	6.61	14.50	3.2	21.62	4.163	4.45
	2	8/26/2013	10:00	4.50	3.50	291.5	23.52	9.965	5.95
		8/26/2013	17:20	4.65	4.36	260.8	22.26	9.599	6.62
		8/27/2013	7:20	4.62	19.63	237.2	25.05	10.920	6.95
		8/27/2013	17:00	4.17	28.07	353.9	25.76	9.946	6.40
		8/28/2013	7:45	4.70	16.60	239.6	23.68	12.660	7.49
		8/28/2013	17:00	3.83	21.59	441.2	24.42	11.710	7.00
	3	8/29/2013	7:15	4.13	6.37	327.7	23.64	12.690	7.63
		9/3/2013	11:10	3.78	11.67	371.5	22.31	9.132	6.65
		9/3/2013	16:00	4.30	9.29	320.5	21.55	10.600	7.10
9/4/2013		7:15	4.36	21.72	326.7	23.71	10.340	7.10	
9/4/2013		17:00	4.60	12.70	291.0	22.34	12.190	4.80	
		9/5/2013	10:50	3.98	19.92	352.7	23.74	11.520	7.58
Shallow Observation wells									
MW-13S	Peroxide Test	8/15/2013	7:15	NM	NM	NM	NM	NM	NM
		8/15/2013	14:15	NM	NM	NM	NM	NM	NM
	1	8/19/2013	13:19	9.83	0.59	-8.5	19.42	9.957	6.25
		8/19/2013	17:20	9.66	0.37	49.1	19.64	9.222	NM
		8/20/2013	10:00	8.49	0.65	162.0	19.82	7.186	NM
		8/20/2013	15:40	6.74	1.92	330.5	26.22	5.715	NM
		8/21/2013	7:15	6.82	5.72	112.4	20.48	4.191	6.99
		8/21/2013	17:00	6.35	8.12	103.5	20.43	2.248	3.93
	2	8/26/2013	10:00	9.45	0.61	208.2	20.48	11.970	6.81
		8/26/2013	17:20	8.91	0.40	169.8	20.57	15.04	2.05
		8/27/2013	7:20	9.09	1.17	207.7	20.36	19.34	7.87
		8/27/2013	17:00	7.30	3.72	284.6	20.28	20.29	5.35
		8/28/2013	7:45	7.82	6.16	197.4	20.53	17.85	8.26
		8/28/2013	17:00	7.29	10.20	316.2	20.71	19.15	5.68
	3	8/29/2013	7:15	7.54	4.04	334.4	21.13	18.90	8.18
		9/3/2013	11:10	7.12	0.62	362.3	21.30	32.21	7.08
		9/3/2013	16:00	6.95	0.29	174.5	21.00	34.12	4.63
9/4/2013		7:15	6.85	1.38	331.5	21.37	34.86	7.21	
9/4/2013		17:00	6.12	2.32	234.5	21.17	30.01	4.65	
		9/5/2013	10:50	6.54	4.86	229.2	22.37	33.03	8.17
OS-10S	Peroxide Test	8/15/2013	7:15	NM	NM	NM	NM	NM	NM
		8/15/2013	14:15	NM	NM	NM	NM	NM	NM
	1	8/21/2013	7:15	2.75	28.87	562.0	22.06	6.345	7.83
		8/21/2013	17:00	3.71	26.31	485.7	23.33	1.147	6.35
	2	8/26/2013	10:00	3.33	13.02	553.9	24.11	11.690	7.98
		8/26/2013	17:20	3.34	22.07	556.6	22.84	9.977	4.17
		8/27/2013	7:20	4.00	17.24	465.4	23.57	3.450	8.38
		8/27/2013	17:00	3.89	24.60	486.2	23.58	3.882	6.82
		8/28/2013	7:45	3.55	23.09	526.4	23.71	8.688	8.63
		8/28/2013	17:00	3.66	20.51	508.9	23.48	5.216	6.90
	3	8/29/2013	7:15	3.62	17.27	535.3	23.82	7.238	8.69
		9/3/2013	11:10	3.53	13.53	545.7	23.82	14.200	8.43
		9/3/2013	16:00	3.46	15.74	557.8	24.29	13.690	5.83
		9/4/2013	7:15	3.86	14.88	503.5	23.88	5.151	8.68
9/4/2013		17:00	3.90	21.70	509.6	23.65	6.242	6.28	
9/5/2013		10:50	3.83	15.17	516.2	23.49	7.61	8.98	

Appendix I. PWR Geochemical Monitoring Summary During Hydrogen Peroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
OS-15S	Peroxide Test	8/15/2013	7:15	NM	NM	NM	NM	NM	NM
		8/15/2013	14:15	NM	NM	NM	NM	NM	NM
	1	8/20/2013	10:00	3.99	29.00	494.0	23.86	4.422	NM
		8/20/2013	15:40	2.71	33.63	561.2	24.41	7.394	NM
		8/21/2013	7:15	3.31	1.04	570.3	17.77	24.460	7.83
		8/21/2013	17:00	3.97	25.60	472.4	25.07	2.948	6.55
		8/26/2013	10:00	3.70	15.70	526.9	22.70	14.700	8.14
	2	8/26/2013	17:20	3.72	19.40	523.5	22.20	13.430	5.48
		8/27/2013	7:20	3.87	24.33	502.6	23.10	10.470	8.50
		8/27/2013	17:00	3.88	32.20	488.2	24.23	7.695	6.82
		8/28/2013	7:45	3.82	29.70	488.8	22.96	11.720	8.75
		8/28/2013	17:00	3.68	28.89	492.4	24.14	5.876	6.98
	3	8/29/2013	7:15	3.69	22.96	504.3	23.37	11.710	8.90
		9/3/2013	11:10	3.57	19.04	452.8	23.03	21.520	8.64
		9/3/2013	16:00	3.50	20.95	439.7	23.33	21.810	5.93
9/4/2013		7:15	3.86	16.88	513.6	23.42	16.770	8.87	
9/4/2013		17:00	3.82	19.06	470.7	23.41	16.80	6.47	
OS-20S	Peroxide Test	8/19/2013	13:19	6.12	8.11	75.8	20.32	0.458	7.72
		8/19/2013	17:20	6.24	14.98	52.5	21.10	0.494	NM
	1	8/20/2013	10:00	6.10	11.90	95.8	20.26	4.422	NM
		8/20/2013	15:40	6.09	32.59	248.4	21.90	0.479	NM
		8/21/2013	7:15	5.87	25.17	195.7	20.55	0.479	7.99
		8/21/2013	17:00	6.18	6.93	5.2	20.24	1.292	6.50
		8/26/2013	10:00	5.97	15.10	424.0	21.19	0.506	8.12
	2	8/26/2013	17:20	5.85	17.50	57.0	20.92	1.173	3.90
		8/27/2013	7:20	6.04	32.08	378.3	21.33	0.810	8.60
		8/27/2013	17:00	6.08	27.95	63.7	21.68	1.103	6.96
		8/28/2013	7:45	6.02	37.60	104.3	21.51	0.928	8.70
		8/28/2013	17:00	5.59	29.05	115.5	21.96	0.686	7.12
	3	8/29/2013	7:15	5.55	27.03	168.4	21.63	0.940	8.89
		9/3/2013	11:10	5.61	18.33	112.7	21.36	0.544	8.64
		9/3/2013	16:00	5.79	15.90	105.3	22.12	0.675	6.02
9/4/2013		7:15	6.08	30.47	291.3	21.98	0.565	8.88	
9/4/2013		17:00	5.91	30.03	89.8	22.56	0.696	6.53	
OS-25S	Peroxide Test	8/19/2013	13:19	6.29	0.55	-55.8	19.71	7.730	7.73
		8/19/2013	17:20	6.42	1.36	-81.6	19.96	0.351	NM
	1	8/20/2013	10:00	5.91	2.05	-16.8	20.15	0.338	NM
		8/20/2013	15:40	5.91	2.05	-16.8	26.04	0.360	NM
		8/21/2013	7:15	5.91	1.30	28.1	20.35	0.311	8.02
		8/21/2013	17:00	6.14	1.90	-39.6	19.94	0.454	5.60
		8/26/2013	10:00	6.09	0.72	-9.3	20.29	0.336	8.13
	2	8/26/2013	17:20	5.79	1.92	-35.0	20.44	0.403	4.43
		8/27/2013	7:20	6.11	3.45	34.8	20.40	0.330	8.55
		8/27/2013	17:00	6.25	1.49	-60.3	20.24	0.653	7.04
		8/28/2013	7:45	6.03	1.42	15.0	20.33	0.424	8.73
		8/28/2013	17:00	5.75	0.92	-35.3	21.04	1.027	7.14
	3	8/29/2013	7:15	5.52	2.82	67.0	20.92	0.574	8.86
		9/3/2013	11:10	5.80	0.62	-8.5	20.48	0.403	8.58
		9/3/2013	16:00	6.16	0.61	-30.8	20.28	0.424	6.17
9/4/2013		7:15	6.25	0.56	-36.2	20.68	0.401	8.82	
9/4/2013		17:00	6.23	1.13	-104.1	20.55	0.485	6.52	
9/5/2013	10:50	6.15	0.49	-30.3	20.89	0.457	9.13		

Appendix I. PWR Geochemical Monitoring Summary During Hydrogen Peroxide Injection

Well Number	Week	Date	Time	pH	DO (mg/L)	ORP (mV)	Temperature °C	Specific Conductivity (µS/cm)	Water Level (ft. BTOC)
Chinquapin Creek (South of Pilot Area)	1	8/19/2013	13:19	7.82	7.43	52.5	22.41	0.052	NA
		8/19/2013	17:20	7.99	7.07	22.5	23.07	0.075	NA
		8/20/2013	10:00	6.24	7.84	283.0	21.69	0.121	NA
		8/20/2013	15:40	6.36	8.11	351.3	22.64	0.128	NA
		8/21/2013	7:15	5.38	6.80	270.0	22.24	0.096	NA
	2	8/21/2013	17:00	6.15	7.42	441.4	23.24	0.118	NA
		8/26/2013	10:00	6.47	9.31	127.5	19.67	0.133	NA
		8/26/2013	17:20	6.85	7.88	133.0	24.47	0.141	NA
		8/27/2013	7:20	6.52	8.10	114.5	19.99	0.137	NA
		8/27/2013	17:00	5.67	9.35	130.0	25.50	0.129	NA
	3	8/28/2013	7:45	6.43	10.10	101.1	21.26	0.145	NA
		8/28/2013	17:00	6.19	8.03	290.4	25.50	0.209	NA
		9/3/2013	11:10	7.01	9.98	188.5	23.40	0.138	NA
		9/3/2013	16:00	6.77	8.52	100.1	26.49	0.154	NA
		9/4/2013	7:15	6.32	7.27	240.5	21.76	0.132	NA
Chinquapin Creek (Upstream at Bridge)	1	9/4/2013	17:00	6.62	7.94	164.1	25.56	0.186	NA
		9/5/2013	10:50	6.73	7.52	22.4	22.56	0.14	NA
		8/19/2013	13:19	7.32	7.53	82.4	22.42	0.051	NA
		8/19/2013	17:20	7.59	7.19	56.3	23.10	0.077	NA
		8/20/2013	10:00	5.89	8.19	298.0	21.69	0.118	NA
	2	8/20/2013	15:40	5.83	8.48	403.7	22.65	0.123	NA
		8/21/2013	7:15	6.10	7.67	186.2	22.00	0.085	NA
		8/21/2013	17:00	6.48	7.77	401.2	23.24	0.116	NA
		8/26/2013	10:00	6.44	9.66	130.5	19.68	0.132	NA
		8/26/2013	17:20	6.43	9.44	160.5	24.43	0.132	NA
	3	8/27/2013	7:20	6.32	8.77	152.3	20.01	0.133	NA
		8/27/2013	17:00	5.76	9.98	156.5	25.35	0.131	NA
		8/28/2013	7:45	6.59	10.55	77.0	21.22	0.133	NA
		8/28/2013	17:00	7.00	8.73	245.6	25.32	0.131	NA
		9/3/2013	11:10	6.90	10.18	193.3	23.34	0.131	NA
3	9/3/2013	16:00	6.97	9.59	62.4	26.60	0.134	NA	
	9/4/2013	7:15	6.53	7.78	132.3	21.72	0.136	NA	
	9/4/2013	17:00	6.81	8.48	86.1	25.65	0.135	NA	
	9/4/2013	17:00	6.81	8.48	86.1	25.65	0.135	NA	
	9/5/2013	10:50	6.80	8.18	53.7	22.51	0.133	NA	

Notes:

N/M - not measured
 uS/cm - micro Siemens per centimeter
 mV - millivolts
 mg/L = milligrams per liter
 ft. BTOC= ft. below top of casing
 N/A= not applicable

APPENDIX J

FIELD GEOCHEMICAL DATA FOR PWR ZONE PERFORMANCE MONITORING



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228.12.0021 MONITORING WELL NUMBER MW-1DR
 SITE NAME Duke Sparta DATE 10/3/12 TIME OF SAMPLE 11:05
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS P. Cloudy

TOTAL WELL DEPTH (TWD) 62 FT. (measured / well tag / drillers log / previous report - circle one)
 SCREENED INTERVAL 57-62 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 7.17
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 54.83
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 8.9 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 26.8 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 2.5 GAL. FLOW RATE 187/100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS
 LOCKING CAP YES NO
 PROTECTIVE POST/ABUTMENT YES NO 82 ~~1866~~ = $\frac{60}{255ml} \times X = 1866$
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>7.17</u>	<u>6.98</u>	<u>0.261</u>	<u>139.0</u>	<u>0.02</u>	<u>17.67</u>	<u>172</u>	
<u>10 min</u>	<u>10.45</u>	<u>6.99</u>	<u>0.258</u>	<u>201.0</u>	<u>0.00</u>	<u>17.47</u>	<u>160</u>	
<u>15 min</u>	<u>11.35</u>	<u>7.25</u>	<u>0.256</u>	<u>255.0</u>	<u>0.00</u>	<u>17.40</u>	<u>143</u>	
<u>20 min</u>	<u>11.65</u>	<u>7.45</u>	<u>0.256</u>	<u>302.0</u>	<u>0.00</u>	<u>17.35</u>	<u>29</u>	< slow purge rate to 100 ml/min
<u>25 min</u>	<u>11.40</u>	<u>7.63</u>	<u>0.257</u>	<u>312.0</u>	<u>0.00</u>	<u>17.50</u>	<u>51</u>	
<u>30 min</u>	<u>11.31</u>	<u>7.56</u>	<u>0.264</u>	<u>71.5</u>	<u>4.41</u>	<u>17.49</u>	<u>46</u>	Prior to reading empty flow thru cell

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MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-355
 SITE NAME Duke Spartanburg DATE 10-2-17 TIME OF SAMPLE 1120
 FIELD PERSONNEL TLH WEATHER CONDITIONS 73° Partly Cloudy

TOTAL WELL DEPTH (TWD) 13.25 FT. (measured / well tag / drillers log/ previous report - circle one)

SCREENED INTERVAL _____ MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.01

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 5.24

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.85 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.55 FIVE STANDING WELL VOLUMES = 4.25

METHOD OF WELL EVACUATION: BAILER/PUMP OTHER: _____ TYPE Peristaltic

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE _____ COMMENTS _____

LOCKING CAP YES / NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO /

NONPOTABLE LABEL YES / NO _____

ID PLATE YES / NO _____

WELL INTEGRITY SATISFACTORY YES / NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.05	6.03	0.999	84.7	2.90	22.83	381	
1105	8.36	6.16	0.685	57.8	1.89	22.73	240	
1110	8.42	6.18	0.683	27.1	1.92	22.74	175	
1115	8.45	6.15	0.68	9.9	1.89	22.72	170	

1055



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-115
 SITE NAME Duke Spartanburg DATE 10/2/12 TIME OF SAMPLE 1130
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS Rain heavily overnight/Sunny

TOTAL WELL DEPTH (TWD) 14.60 FT. (measured / well tag drillers log/ previous report - circle one)
 SCREENED INTERVAL 4.6-14.6 MEASURING POINT FOR DEPTH NA
 DEPTH TO GROUNDWATER (DGW) 11.40
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.2
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.5 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 1.5 FIVE STANDING WELL VOLUMES = 2.5

METHOD OF WELL EVACUATION: BAILER / PUMP OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 40 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS purged dry @ 1 vol.
 LOCKING CAP YES ✓ NO _____ collect sample reading
 PROTECTIVE POST/ABUTMENT YES _____ NO ✓ prior to collecting samples
 NONPOTABLE LABEL YES ✓ NO _____ - allowed 1 hr of recharge
 ID PLATE YES ✓ NO _____ - purged dry during sampling/collected
 WELL INTEGRITY SATISFACTORY YES ✓ NO _____ pad cracked all but VOCs, SVOCs
 WELL YIELD LOW ✓ MODERATE _____ HIGH _____ 1500 - collected SVOCs and VOCs
(only one SVOC purged dry)

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	11.40	4.60	0.394	888.0	10.15	21.42	229	
5	12.76	3.90	0.517	7100	0.00	21.41	281	
10	13.45	3.96	0.537	7100	0.00	21.47	280	Empty flow thru cell
15	14.05	4.35	0.407	605.0	6.07	21.56	249	
20	14.35	4.34	0.434	526.0	5.10	21.87	243	
25	14.40 (dry)	4.34	0.454	472.0	4.98	22.49	243	Purged dry
35	14.72	4.72	0.089	55.1	0.01	24.39	266	RMC 10/2/12
* Sample	DNM	4.41	0.451	32.1	11.61	26.15	233	

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-11D
 SITE NAME Duke Spartanburg DATE 10/2/12 TIME OF SAMPLE 1435
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS Rain in AM/Sunny

TOTAL WELL DEPTH (TWD) 31.2 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 26.2-31.2 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 11.22
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 19.98
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 3.3 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 9.9 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peristaltic (flow flood)
 TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES ✓ NO _____ - MW-11D located approx 8'
 PROTECTIVE POST/ABUTMENT YES _____ NO ✓ towards creek from MW-11S
 NONPOTABLE LABEL YES ✓ NO _____ - Begin sampling @ 1435
 ID PLATE YES ✓ NO _____
 WELL INTEGRITY SATISFACTORY YES ✓ NO _____ - vegetation high initially, could not
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____ find

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	11.35	6.92	0.358	42.8	6.88	20.30	8	
5 min	12.60	6.69	0.335	37.4	0.00	19.52	39	
10 min	13.09	6.92	0.330	23.7	0.00	19.36	35	
15 min	13.39	7.02	0.332	18.4	0.00	19.13	31	Empty flow thru cell reading
20 min	13.45	7.17	0.333	16.7	5.30	18.78	19	
25 min	13.35	7.39	0.330	14.1	0.00	18.93	13	

14:19
14:24
14:29
14:34
14:39
14:34

after



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER G228-12-0021 MONITORING WELL NUMBER MW-13 D
 SITE NAME Duke Spartan bilog DATE 10/3/12 TIME OF SAMPLE 1540
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS P. Cloudy

TOTAL WELL DEPTH (TWD) 35.4 FT. (measured well tag drillers log/ previous report - circle one)
 SCREENED INTERVAL 30.4-35.4 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.88
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 26.52

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 4.2 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 12.6 FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE peristaltic (low flow)
 TOTAL VOLUME OF WATER REMOVED: 3.0 GAL. FLOW RATE 168 ml/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE
 LOCKING CAP YES NO
 PROTECTIVE POST/ABUTMENT YES NO
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

COMMENTS ~~that the pump~~ in well/removed pump & tubing - large ant nest adjacent to well
 $\frac{235 \text{ ml}}{91} = \frac{x}{60} \quad x = 168$

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	9.95	6.92	0.415	34.5	5.72	18.89	86	
5 min	11.12	6.44	0.414	35.7	5.43	18.85	94	
10 min	12.58	6.25	0.412	38.9	5.09	18.81	110	
15 min	14.30	6.40	0.412	48.9	5.02	18.80	107	
20 min	15.90	6.62	0.412	75.3	5.18	18.72	102	slow purge rate to approx 100 ml/min
25 min	18.75	6.68	0.413	93.5	5.23	19.31	106	
30 min	22.53	6.64	0.411	126.0	5.44	18.44	115	slow purge rate to 60 ml/min
35 min	24.50	6.71	0.412	112.0	5.13	19.67	117	
40 min	DNM	DNM	DNM	↑23.6	DNM	DNM	DNM	

Stabilized @ 25' b/c Recalibrated U-22 U-22 reading 436 on Cal 5. Autocal 5. Recal = 0.0



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOL
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1600
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° Cloudy

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 7.0

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.5

CASING DIAMETER 4 IN.
 ONE STANDING WELL VOLUME = 9.4 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 28.2 FIVE STANDING WELL VOLUMES = 47

METHOD OF WELL EVACUATION: BAILER/PUMP/ OTHER: TYPE Perc

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	7.0	6.43	0.945	32.7	1.07	22.13	-13	
1546	7.4	6.16	0.981	11.2	0.19	21.86	-21	
1551	7.43	6.2	0.990	8.9	0.02	21.79	-26	
1556	7.49	6.23	0.989	5.5	0	21.75	-30	

5.36



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-163
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1200
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° cloudy

TOTAL WELL DEPTH (TWD) 18.35 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8.35-18.25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 15.29
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.06
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = .50 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 1.5 FIVE STANDING WELL VOLUMES = 2.5

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Perc

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	15.29	5.59	0.232	39.6	3.67	22.22	231	
1145	15.62	5.59	0.327	23.3	1.18	21.78	262	
1150	15.59	5.62	0.333	9.3	0.9	21.78	258	
1155	15.59	5.64	0.334	7.8	0.9	21.83	255	

1135
 1135



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-160
 SITE NAME Duke-Spartanburg DATE 10-3-12 TIME OF SAMPLE 1235
 FIELD PERSONNEL TLH WEATHER CONDITIONS 68° Cloudy

TOTAL WELL DEPTH (TWD) 31.5 FT. (measured) well tag / drillers log/ previous report - circle one
 SCREENED INTERVAL 26.5-31.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 15.72
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 15.78

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.58 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 7.74 FIVE STANDING WELL VOLUMES = 12.9

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	15.72	6.86	0.341	63.6	1.71	20.72	97	
1227	15.3	6.86	0.336	16.5	0.26	20.5	-0	
1228	15.3	6.83	0.335	11.3	0.25	20.46	-11	
1233	15.31	6.81	0.335	8.6	0.1	20.49	-15	

1218



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-185
 SITE NAME Duke Spartanburg DATE 10/2/17 TIME OF SAMPLE 1230
 FIELD PERSONNEL Rodney Clark WEATHER CONDITIONS Rain in morning/sunny

TOTAL WELL DEPTH (TWD) 14.88 FT. (measured / well tag / drillers log / previous report - circle one)
 SCREENED INTERVAL 4.88-14.88 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 4.13
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 10.75

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 1.75 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 5.25 FIVE STANDING WELL VOLUMES = 8.75
 METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE peristaltic (low flow)

TOTAL VOLUME OF WATER REMOVED: 0.75 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____ * Sample SVOCs first, then
 PROTECTIVE POST/ABUTMENT YES _____ NO collect sample, reading
 NONPOTABLE LABEL YES NO _____ below prior to collecting
 ID PLATE YES NO _____ (Fe, Mn) metals, VOCs, and
 WELL INTEGRITY SATISFACTORY YES NO _____ NO₃, SO₄, Alk.
 WELL YIELD LOW _____ MODERATE _____ HIGH _____ WL meter contains free-product

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
12:04	Initial Reading	4.13	463	0.101	195.0	3.12	21.59	253
12:15	10	4.30 4.30	299 299	0.087	150.0	0.00	21.57	299
12:19	16	4.30	4.11	0.087	149.0	0.00	21.87	296
12:26	23	4.30	4.24	0.085	149.0	0.00	21.67	294
12:30	25	4.30	4.39	0.083	123.0	6.23	21.67	290
	35	DNM	4.73	0.089	55.1	9.91	24.39	266 *

Empty flow thru cell
 Empty flow thru cell



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-18D
 SITE NAME Duke Spartanburg DATE 10-2-12 TIME OF SAMPLE _____
 FIELD PERSONNEL LH WEATHER CONDITIONS 73° cloudy

TOTAL WELL DEPTH (TWD) 35.05 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL _____ MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 5.5
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 30.05

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 4.99 gal.

(NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 14.97 FIVE STANDING WELL VOLUMES = 24.95

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: _____ TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: 3 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE _____ COMMENTS _____

LOCKING CAP YES NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO _____

NONPOTABLE LABEL YES NO _____

ID PLATE YES NO _____

WELL INTEGRITY SATISFACTORY YES NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	5.5	5.87	0.424	66.4	2.26	19.24	129	
1218	6.15	5.32	0.405	116.0	2.12	18.96	132	
1228	6.2	5.39	0.396	138.0	1.72	19.06	128	
1238	6.22	5.4	0.394	32.1	1.39	18.98	115	
1243	6.25	5.4	0.391	17.2	1.12	18.96	109	
1248	6.26	5.4	0.390	8.7	1.09	18.94	108	

1208



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-002 MONITORING WELL NUMBER MW-0555
 SITE NAME Duke Spartanburg DATE 10-5-12 TIME OF SAMPLE 1305
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 13 FT (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TDL

DEPTH TO GROUNDWATER (DGW) 8.65
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.35

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.71 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.13 FIVE STANDING WELL VOLUMES = 3.55

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE Peri

TOTAL VOLUME OF WATER REMOVED: 1 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.78	6.62	0.804	77.9	3.92	23.61	-10	
1254	8.79	6.13	0.785	28.2	0.54	22.58	-4	
1259	8.79	6.10	0.784	14.3	0.56	22.67	-16	
1304	8.79	6.11	0.784	7.7	0.56	22.63	-18	

1244



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-055E
 SITE NAME Duke Spartanburg DATE 10-5-12 TIME OF SAMPLE 1355
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 85

TOTAL WELL DEPTH (TWD) 13 FT. (measured/ well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.28
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.72
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = .77 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.31 FIVE STANDING WELL VOLUMES = 3.85

METHOD OF WELL EVACUATION: BAILER PUMP / OTHER: TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: 1 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.28	6.73	0.739	42.3	4.86	24.34	25	
1340	8.30	6.09	0.741	13.1	1.54	23.84	68	
1345	8.31	6.08	0.741	8.7	1.52	23.83	69	
1350	8.31	6.08	0.742	6.2	1.52	23.88	70	

1335
1340



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-05205
 SITE NAME Duke-Spartanburg DATE 10-5-12 TIME OF SAMPLE 1035
 FIELD PERSONNEL T L H WEATHER CONDITIONS Sunny 83°

TOTAL WELL DEPTH (TWD) 13 FT. (~~measured~~ well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.78
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.22

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 0.64 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.07 FIVE STANDING WELL VOLUMES = 3.45

METHOD OF WELL EVACUATION: BAILER (~~PUMP~~)/ OTHER: TYPE Peri
 TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO _____
 NONPOTABLE LABEL YES NO _____
 ID PLATE YES NO _____
 WELL INTEGRITY SATISFACTORY YES NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.78	6.45	0.622	178	1.7	20.16	-24	
1015	8.83	6.34	0.599	67.1	0.23	20.62	-48	
1020	8.83	6.31	0.596	26.1	0.09	20.69	-68	
1025	8.82	6.30	0.591	16.8	0.02	20.66	-72	
1030	8.83	6.30	0.59	4.7	0.02	20.66	-74	

1005



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-10D
 SITE NAME Duke Energy-Spartanburg DATE 2/25/13 TIME OF SAMPLE 1110
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Cloudy, 40°F

TOTAL WELL DEPTH (TWD) 39 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 34-39 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 10.62
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 28.38

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 4.65 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 13.95 FIVE STANDING WELL VOLUMES = 23.25

METHOD OF WELL EVACUATION: ~~BAILER~~ PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.25 GAL. FLOW RATE 150 mL/min

WELL TYPE: ~~PLUMB~~ ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.62	5.61	0.146	5.1	4.42	10.35	171	1050
7 min	10.76	6.50	0.167	2.7	1.97	10.74	192	1057
12 min	11.04 ^{11.20} RM	6.39	0.163	2.9	1.82	11.07	199	1102
16 min	11.23	6.35	0.162	2.2	1.67	11.29	202	1106
20 min	11.44	6.32	0.161	2.5	1.61	11.45	205	1110

TLH

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-12D
 SITE NAME Duke Energy-Spartanburg DATE 2/27/13 TIME OF SAMPLE 0910
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny, 60°F

TOTAL WELL DEPTH (TWD) 35.42 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 30.42-35.42 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 3.64
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 31.78
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 5.1 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = NA FIVE STANDING WELL VOLUMES = NA

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.025 RM GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

LOCKING CAP YES NO
 PROTECTIVE POST/ABUTMENT YES NO
 NONPOTABLE LABEL YES NO
 ID PLATE YES NO
 WELL INTEGRITY SATISFACTORY YES NO
 WELL YIELD LOW MODERATE HIGH

COMMENTS

Completed sampling @ 0910, pulled tubing. Tubing not within screened interval, resample w/ tubing in screened interval, leave sample time as 0910

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH <small>temp</small>	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	4.35	4.48	0.294	14.0	10.52	4.59	109	TIME 0847
4 min	4.49	6.58	0.285	12.3	13.23	5.69	143	0853
11 min	4.66	6.85	0.278	6.4	11.95	7.50	156	0900
16 min	4.66	6.84	0.273	4.2	11.56	8.29	161	0905
21 min	4.65	6.80	0.267	1.7	10.94	9.32	168	0910
Initial	4.91	6.14	0.256	2.2	1.25	15.41	158	1031
5 min	5.48	6.32	0.252	2.3	0.00	15.38	129	1036
9 min	5.73	6.39	0.248	0.8	0.00	15.53	120	1040
17 min	5.81	6.36	0.246	0.4	0.00	15.76	104	1048
23 min	5.79	6.34	0.246	0.2	0.00	17.79	94	1054
								Sample @ 1055/leave sample time as 0910



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOC
 SITE NAME Duke Energy-Spartanburg DATE 2-27-13 TIME OF SAMPLE 1140
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny 52°

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) _____

LENGTH OF WATER COLUMN (LWC) = TWD – DGW = _____
 CASING DIAMETER 4 IN.

ONE STANDING WELL VOLUME = _____ gal.
 (NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = _____ FIVE STANDING WELL VOLUMES = _____

METHOD OF WELL EVACUATION: BAILER (PUMP)/ OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 5 GAL. FLOW RATE 150 mL/min

WELL TYPE: (FLUSH MOUNT) ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading		6.31	8.73	2.2	3.41	13.32	170	
1126		6.15	8.74	2.2	0	13.72	160	
1131		6.12	8.72	2.1	0	13.74	154	
1136		6.10	8.69	2.1	0	13.81	152	

1121



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5S
 SITE NAME Duke Energy-Spartanburg DATE 2-18-13 TIME OF SAMPLE 1400
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny 60°

TOTAL WELL DEPTH (TWD) ~~28~~ 25 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL ~~2-13~~ 20-25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.05
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 16.95
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.8 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = FIVE STANDING WELL VOLUMES =

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE X HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>10.48</u>	<u>6.39</u>	<u>0.55</u>	<u>9.7</u>	<u>7.49</u>	<u>17.82</u>	<u>123</u>	<u>1344</u>
<u>8 minutes</u>	<u>12.92</u>	<u>6.52</u>	<u>0.44</u>	<u>4.8</u>	<u>2.15</u>	<u>18.23</u>	<u>102</u>	<u>1352</u>
<u>12 minutes</u>	<u>12.72</u>	<u>6.64</u>	<u>0.41</u>	<u>5.2</u>	<u>2.28</u>	<u>18.31</u>	<u>97</u>	<u>1356</u>
<u>18 minutes</u>	<u>12.85</u>	<u>6.69</u>	<u>0.39</u>	<u>2.4</u>	<u>2.43</u>	<u>18.39</u>	<u>92</u>	<u>1402</u>





MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-10S
SITE NAME Duke Energy-Spartanburg DATE 2/28/13 TIME OF SAMPLE 0830
FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny 45°F in shade

TOTAL WELL DEPTH (TWD) 258.87 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 20-25 MEASURING POINT FOR DEPTH TOC
DEPTH TO GROUNDWATER (DGW) 6.87
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 16.13
CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 2.5 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = FIVE STANDING WELL VOLUMES =

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 150 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS

LOCKING CAP YES X NO
PROTECTIVE POST/ABUTMENT YES NO X
NONPOTABLE LABEL YES X NO
ID PLATE YES X NO
WELL INTEGRITY SATISFACTORY YES X NO
WELL YIELD LOW MODERATE HIGH

Table with 9 columns: Elapsed Purge Time (in minutes), Depth to Groundwater, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows include initial reading and samples at 4, 11, 15, 20, 25, 31, and 34 minutes.

accurate slow pour



AMEC E&I, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-3W
SITE NAME Duke Energy-Spartanburg DATE 2/28/13 TIME OF SAMPLE 0955
FIELD PERSONNEL TLH & RC WEATHER CONDITIONS Sunny, 45°F in mark

TOTAL WELL DEPTH (TWD) 23 FT. (measured / well tag / drillers log/ previous report - circle one)
SCREENED INTERVAL 18-23 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.44
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.56

CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 2.3 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = FIVE STANDING WELL VOLUMES =

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS

LOCKING CAP YES X NO
PROTECTIVE POST/ABUTMENT YES NO X
NONPOTABLE LABEL YES X NO
ID PLATE YES X NO
WELL INTEGRITY SATISFACTORY YES X NO
WELL YIELD LOW MODERATE HIGH

Table with 9 columns: Elapsed Purge Time (in minutes), Depth to Groundwater, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows include initial reading and samples at 5, 10, 17, 20, and 25 minutes.



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOC
 SITE NAME Duke Energy-Spartanburg DATE 3-27-13 TIME OF SAMPLE 1015
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS 40° Sunny

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 6.13
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 15.37
 CASING DIAMETER 4 IN.
 ONE STANDING WELL VOLUME = 10.04 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 30.12 FIVE STANDING WELL VOLUMES = 50.2

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 1 GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH ✓

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	6.13	6.79	7335	NM	5.2	16.10	126.1	
1003	6.20	6.77	7358	NM	1.19	16.20	139.6	
1008	6.20	6.76	7350	NM	1.11	16.21	145.8	
1013	6.20	6.76	7347	NM	1.09	16.21	150.1	

958



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-3SS
 SITE NAME Duke Energy-Spartanburg DATE 8-1-13 TIME OF SAMPLE 8:05
 FIELD PERSONNEL TLH & SS WEATHER CONDITIONS overcast mid 70's

TOTAL WELL DEPTH (TWD) 13.25 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 8.25-13.25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 8.13
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 5.12
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 1.84 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.52 FIVE STANDING WELL VOLUMES = 4.2

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 5 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.3	6.62	0.467	5.6	3.45	22.57	143	
7:56	8.3	6.63	0.471	1.3	1.90	22.25	142	
8:01	8.3	6.63	0.472	0.9	1.43	22.09	142	

7:51



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-12D
 SITE NAME Duke Energy-Spartanburg DATE 7-31-13 TIME OF SAMPLE 16:00
 FIELD PERSONNEL TLH & SS WEATHER CONDITIONS overcast mid 80's

TOTAL WELL DEPTH (TWD) 35.42 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 30.42-35.42 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 4.62
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 30.80

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 5.05 gal.
 (NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 15.15 FIVE STANDING WELL VOLUMES = 25.25

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 1 GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>3.99</u>	<u>5.12</u>	<u>0.204</u>	<u>4.9</u>	<u>5.87</u>	<u>27.37</u>	<u>208</u>	
<u>15:43</u>	<u>4.17</u>	<u>6.22</u>	<u>0.268</u>	<u>12.1</u>	<u>5.56</u>	<u>26.50</u>	<u>147</u>	
<u>15:48</u>	<u>4.25</u>	<u>6.26</u>	<u>0.285</u>	<u>18.6</u>	<u>5.33</u>	<u>25.42</u>	<u>141</u>	
<u>15:53</u>	<u>4.26</u>	<u>6.24</u>	<u>0.289</u>	<u>22.3</u>	<u>5.13</u>	<u>24.83</u>	<u>140</u>	
<u>15:58</u>	<u>4.26</u>	<u>6.19</u>	<u>0.291</u>	<u>22.9</u>	<u>5.00</u>	<u>24.45</u>	<u>141</u>	

15:38



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ~~1302~~ F302
 SITE NAME Duke Energy-Spartanburg DATE 7-31-13 TIME OF SAMPLE 7:35
 FIELD PERSONNEL TLH & SS WEATHER CONDITIONS Cloudy 85°

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log/ previous report - circle one)

SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) ~~20.0~~ 5.94

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 15.56

CASING DIAMETER 4 IN.

ONE STANDING WELL VOLUME = 2.55 gal.

(NOTE 1/2" = 0.0102 G/FT; 3/4" = 0.023 G/FT; 1" = 0.041 G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 7.65 FIVE STANDING WELL VOLUMES = 12.75

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 1.0 GAL. FLOW RATE 200 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

- LOCKING CAP YES X NO _____
- PROTECTIVE POST/ABUTMENT YES _____ NO X _____
- NONPOTABLE LABEL YES X NO _____
- ID PLATE YES X NO _____
- WELL INTEGRITY SATISFACTORY YES X NO _____
- WELL YIELD LOW _____ MODERATE HL HIGH ✓

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>6.85</u>	<u>7.02</u>	<u>1.46</u>	<u>11.3</u>	<u>3.12</u>	<u>22.11</u>	<u>281</u>	
<u>7:23</u>	<u>6.85</u>	<u>9.71</u>	<u>8.94</u>	<u>5.6</u>	<u>0.02</u>	<u>21.36</u>	<u>135</u>	
<u>7:28</u>	<u>6.85</u>	<u>9.68</u>	<u>8.87</u>	<u>6.1</u>	<u>0</u>	<u>20.92</u>	<u>112</u>	
<u>7:33</u>	<u>6.85</u>	<u>9.68</u>	<u>8.82</u>	<u>7.3</u>	<u>0</u>	<u>20.89</u>	<u>104</u>	

718



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-19S
 SITE NAME Duke Energy-Spartanburg DATE 7-31-13 TIME OF SAMPLE 9:55
 FIELD PERSONNEL TLH & SS WEATHER CONDITIONS overcast high 70's

TOTAL WELL DEPTH (TWD) 15 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 5-15 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 7.89

LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 7.11

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 1.16 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 3.48 FIVE STANDING WELL VOLUMES = 5.8

METHOD OF WELL EVACUATION: BAILER (PUMP) OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 140 mL/min

WELL TYPE: (FLUSH MOUNT) ABOVE GRADE COMMENTS Storm water

LOCKING CAP YES X NO _____ ponding in wells outer casing

PROTECTIVE POST/ABUTMENT YES _____ NO X

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.05	6.43	0.523	143	1.54	22.52	19	
9:45	8.05	6.30	0.525	144	0.94	22.20	35	
9:50	8.05	6.36	0.516	128	0.60	22.06	38	

9:40



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS10E
 SITE NAME Duke Energy-Spartanburg DATE 7-30-13 TIME OF SAMPLE 9:10
 FIELD PERSONNEL TLH WEATHER CONDITIONS Sunny ~~at~~ low 80's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log/ previous report – circle one)

SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 6.8

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 6.2

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 1.01 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 3.03 FIVE STANDING WELL VOLUMES = 5.05

METHOD OF WELL EVACUATION: BAILER/PUMP OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE 100 mL/min

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE / HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	<u>6.86</u>	<u>6.71</u>	<u>0.325</u>	<u>8.7</u>	<u>3.63</u>	<u>24.13</u>	<u>145</u>	
<u>8:53</u>	<u>6.95</u>	<u>6.90</u>	<u>0.329</u>	<u>6.8</u>	<u>2.90</u>	<u>24.04</u>	<u>131</u>	
<u>8:58</u>	<u>6.97</u>	<u>6.89</u>	<u>0.347</u>	<u>7.3</u>	<u>2.47</u>	<u>23.88</u>	<u>120</u>	
<u>9:03</u>	<u>6.97</u>	<u>6.86</u>	<u>0.356</u>	<u>6.5</u>	<u>2.07</u>	<u>23.75</u>	<u>113</u>	
<u>9:08</u>	<u>6.97</u>	<u>6.87</u>	<u>0.359</u>	<u>7.0</u>	<u>1.66</u>	<u>23.65</u>	<u>109</u>	

8:48

3.



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5W
 SITE NAME Duke Energy-Spartanburg DATE 7-30-13 TIME OF SAMPLE 1110
 FIELD PERSONNEL TLH WEATHER CONDITIONS 77 Sunny

TOTAL WELL DEPTH (TWD) 24 FT. (measured / well tag / drillers log/ previous report - circle one)
 SCREENED INTERVAL 19-24 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.65
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 15.35

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.92 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 2.56 FIVE STANDING WELL VOLUMES = 12.6

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE 205 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS water level was not working
 LOCKING CAP YES X NO _____ Flow rate of 200 mL/min
 PROTECTIVE POST/ABUTMENT YES _____ NO X was used on 4-23-13 so
 NONPOTABLE LABEL YES X NO _____ used that flow rate today
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	NM	4.85	0.003	33.4	8.13	31.02	576	
1055	↓	3.42	8.93	17.7	0.39	28.77	552	
1100		3.44	8.98	9.5	0.18	28.62	544	
1105		3.46	9.04	8.3	0.10	28.53	538	
		instrument not working						

050



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-10S
 SITE NAME Duke Energy-Spartanburg DATE 7-30-13 TIME OF SAMPLE 15:45
 FIELD PERSONNEL TLH & RC WEATHER CONDITIONS overcast 85

TOTAL WELL DEPTH (TWD) 25 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 20-25 MEASURING POINT FOR DEPTH TOC
 DEPTH TO GROUNDWATER (DGW) 9.55
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 14.45
 CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.33 gal.
 (NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 7.06 FIVE STANDING WELL VOLUMES = _____
 METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE Peri-Pump
 TOTAL VOLUME OF WATER REMOVED: 0.5 GAL. FLOW RATE 90 mL/min
 WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____
 LOCKING CAP YES X NO _____
 PROTECTIVE POST/ABUTMENT YES _____ NO X _____
 NONPOTABLE LABEL YES X NO _____
 ID PLATE YES X NO _____
 WELL INTEGRITY SATISFACTORY YES X NO _____
 WELL YIELD LOW _____ MODERATE _____ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.61	3.85	18.9	16.1	0.35	32.4	460	
15:25	11.08	3.61	21.2	30.7	0.13	31.37	481	
15:30	11.09	3.58	22.0	50	0.0	30.94	468	
15:35	11.09	3.56	22.0	55.4	0.0	30.84	472	

15:20



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-25S
 SITE NAME Duke Energy-Spartanburg DATE 7-31-13 TIME OF SAMPLE 8:30
 FIELD PERSONNEL TLH WEATHER CONDITIONS overcast ~~☀~~ light rain

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log/ previous report – circle one)

SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.05

LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 4.95

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.808 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.425 FIVE STANDING WELL VOLUMES = 4.04

METHOD OF WELL EVACUATION: BAILER/PUMP/OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: 1.5 GAL. FLOW RATE 150 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE ✓ HIGH _____

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	8.23	6.44	0.450	68.5	2.30	21.84	-39	
8:16	8.23	6.39	0.381	60.0	1.35	21.66	-54	
8:21	8.23	6.35	0.363	35.6	0.77	21.36	-64	

8:11



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5W
 SITE NAME Duke Energy-Spartanburg DATE 9-12-13 TIME OF SAMPLE 1010
 FIELD PERSONNEL TLH WEATHER CONDITIONS 72° Sunny

TOTAL WELL DEPTH (TWD) 24 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 19-24 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.38
 LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.62

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.39 gal.

(NOTE ½" = 0.0102G/FT; ¾" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 7.17 FIVE STANDING WELL VOLUMES = 11.95

METHOD OF WELL EVACUATION: BAILER/PUMP / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE _____ mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X _____

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH _____

14.5 g/L

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	10.68	3.71	18.5	36.8	2.77	26.35	520	
9057	10.68	3.80	20.4	23.8	1.33	26.65	506	
1002	10.69	3.80	20.5	17.4	1.03	26.70	506	
1007	10.69	3.80	20.5	14.6	.89	26.72	507	

9052



MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-10W
 SITE NAME Duke Energy-Spartanburg DATE 9-12-13 TIME OF SAMPLE 9:10
 FIELD PERSONNEL TLH WEATHER CONDITIONS 70° Sunny

TOTAL WELL DEPTH (TWD) 22.5 FT. (measured / well tag / drillers log/ previous report – circle one)
 SCREENED INTERVAL 18.5-22.5 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.16
 LENGTH OF WATER COLUMN (LWC) = TWD – DGW = 13.34

CASING DIAMETER 2 IN.
 ONE STANDING WELL VOLUME = 2.18 gal.

(NOTE 1/2" = 0.0102G/FT; 3/4" = 0.023 G/FT; 1" = 0.041G/FT; 2" = 0.163 G/FT; 4" = 0.653 G/FT; 6" = 1.46 G/FT)
 THREE STANDING WELL VOLUMES = 6.54 FIVE STANDING WELL VOLUMES = 10.9

METHOD OF WELL EVACUATION: BAILER (PUMP) / OTHER: TYPE Peri-Pump

TOTAL VOLUME OF WATER REMOVED: _____ GAL. FLOW RATE 150 mL/min

WELL TYPE: FLUSH MOUNT / ABOVE GRADE COMMENTS _____

LOCKING CAP YES X NO _____

PROTECTIVE POST/ABUTMENT YES _____ NO X

NONPOTABLE LABEL YES X NO _____

ID PLATE YES X NO _____

WELL INTEGRITY SATISFACTORY YES X NO _____

WELL YIELD LOW _____ MODERATE _____ HIGH _____

845
850
855
900

Elapsed Purge Time (in minutes)	Depth to Groundwater	pH	Cond. (µS/cm)	Turbidity (NTU)	Dis. O ₂ (mg/L)	Temp (°C)	ORP (mV)	Notes
Initial Reading	9.76	3.89	2.07	28.4	3.72	24.27	484	
850	10.03	3.28	10.3	7.7	1.78	22.78	538	Lower Flow Rate
855	10.04	3.28	10.3	8.4	1.63	22.76	539	
900	10.04	3.28	10.4	8.0	1.61	22.75	539	





AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-25S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 830
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny mid 70's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.05

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.95

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.643 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 1.931 FIVE STANDING WELL VOLUMES = 3.215

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE per:

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 6.82 per: speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

-
5
10

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Contains 3 rows of data with handwritten values.



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MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-20S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 8:55
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny mid-70's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.04

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.96

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 9.643 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 1.936 FIVE STANDING WELL VOLUMES = 3.226

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peri

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 6.64 peri-speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows 1-5 contain data points.

pH didn't reset



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-15S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 9:20
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny mid-70's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC
DEPTH TO GROUNDWATER (DGW) 9.10
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 3.90
CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 0.635 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 1.905 FIVE STANDING WELL VOLUMES = 3.175

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peri

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 5.71 peri-speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows include data for depths 10.16', 10.26', 10.30', 10.30', 10.30'.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-10S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 952
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny mid-70's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.89

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.11

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.669 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.007 FIVE STANDING WELL VOLUMES = 3.335

METHOD OF WELL EVACUATION: BAILER / PUMP OTHER: TYPE per:

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 5.27 per: speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows include data for depths 9.31, 9.43, 9.42, 9.42, 9.42, 9.42.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-5S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1024
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny mid-70's

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.69

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.31

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.702 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.106 FIVE STANDING WELL VOLUMES = 3.51

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE per

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 5.00 per: -speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

1
5
10
15
20
25

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain sampling data from 1 to 25 feet depth.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-10E
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1127
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 80°

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 7.97

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 5.03

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.819 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.457 FIVE STANDING WELL VOLUMES = 4.095

METHOD OF WELL EVACUATION: BAILER (PUMP) OTHER: TYPE per:

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS NTU = 0.0

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

Tried several times to clear out HORIBA

4.45 per: speed

WELL YIELD LOW MODERATE X HIGH

5
10
15

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Contains 4 rows of data with handwritten values.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OS-5N
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1145
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 80°

TOTAL WELL DEPTH (TWD) 13 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 8-13 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 8.16

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 4.84

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 0.788 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 2.364 FIVE STANDING WELL VOLUMES = 3.94

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peri

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 4.35 peri-speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW MODERATE X HIGH

5
60
15

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain data for depths 8.54', 8.60', 8.60', 8.60'.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-10S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1208
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 25 FT. (measured / well tag / drillers log / previous report circle one)
SCREENED INTERVAL 20-25 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 10.11
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.89

CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 2.42 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 7.26 FIVE STANDING WELL VOLUMES = 12.1

METHOD OF WELL EVACUATION: BAILER PUMP OTHER: TYPE per:

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT ABOVE GRADE

COMMENTS peri pump speed

LOCKING CAP YES X NO

3.99

PROTECTIVE POST/ABUTMENT YES NO X

2.94

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW X MODERATE HIGH

1
5
10
15
20

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain data for depths 11.03', 12.11', 12.54', 13.01', 13.40'.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-3S
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1345
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 24.5 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 19.5-24.5 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.16

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 15.34

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 2.500 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 7.5 FIVE STANDING WELL VOLUMES = 12.5

METHOD OF WELL EVACUATION: BAILER (PUMP) OTHER: TYPE Per:

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT (ABOVE GRADE)

COMMENTS 2.08 per: speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW X MODERATE HIGH

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain data for depths 9.44', 9.34', 9.71', 9.74', 9.77'.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OB-10W
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1506
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS overcast 85°

TOTAL WELL DEPTH (TWD) 22.5 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 18.5-22.5 MEASURING POINT FOR DEPTH TOC
DEPTH TO GROUNDWATER (DGW) 9.37
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 13.13
CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 2.140 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 6.42 FIVE STANDING WELL VOLUMES = 10.7

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE peri

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT ABOVE GRADE

COMMENTS 2.34 peri-speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW X MODERATE HIGH

1
5
10
15
20

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain data for depths 9.97', 10.24', 10.45', 10.58', 10.70'.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-5W
SITE NAME Duke Energy - Spartanburg DATE 9/20/13 TIME OF SAMPLE 1441
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 24 FT. (measured / well tag / drillers log/ previous report - circle one)
SCREENED INTERVAL 19-24 MEASURING POINT FOR DEPTH TOC
DEPTH TO GROUNDWATER (DGW) 9.51
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.49
CASING DIAMETER 2 IN.
ONE STANDING WELL VOLUME = 2.361 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 7.083 FIVE STANDING WELL VOLUMES = 11.805

METHOD OF WELL EVACUATION: BAILER / PUMP OTHER: TYPE Peri

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 2.54 per: -speed

LOCKING CAP YES x NO
PROTECTIVE POST/ABUTMENT YES NO x
NONPOTABLE LABEL YES x NO
ID PLATE YES x NO
WELL INTEGRITY SATISFACTORY YES x NO
WELL YIELD LOW x MODERATE HIGH

turbidity would not drop

1
5
10
15
20

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Contains 5 rows of data.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER OR-3W
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1410
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS Sunny 85°

TOTAL WELL DEPTH (TWD) 23 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 18-23 MEASURING POINT FOR DEPTH TOC

DEPTH TO GROUNDWATER (DGW) 9.61

LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 13.39

CASING DIAMETER 2 IN.

ONE STANDING WELL VOLUME = 2.18 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 6.547 FIVE STANDING WELL VOLUMES = 10.90

METHOD OF WELL EVACUATION: BAILER / PUMP / OTHER: TYPE per!

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT / ABOVE GRADE

COMMENTS 2.55 per: speed

LOCKING CAP YES X NO

PROTECTIVE POST/ABUTMENT YES NO X

NONPOTABLE LABEL YES X NO

ID PLATE YES X NO

WELL INTEGRITY SATISFACTORY YES X NO

WELL YIELD LOW X MODERATE HIGH

5
10
15

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Contains 4 rows of data with handwritten values.



AMEC ENVIRONMENT & INFRASTRUCTURE, INC.

MONITORING WELL SAMPLING FIELD DATA WORKSHEET

AMEC PROJECT NUMBER 6228-12-0021 MONITORING WELL NUMBER MW-13 ISOC
SITE NAME Duke Energy - Spartansburg DATE 9/20/13 TIME OF SAMPLE 1533
FIELD PERSONNEL Shane Sisco WEATHER CONDITIONS overcast 85°

TOTAL WELL DEPTH (TWD) 21.5 FT. (measured / well tag / drillers log / previous report - circle one)
SCREENED INTERVAL 6.5-21.5 MEASURING POINT FOR DEPTH TOC
DEPTH TO GROUNDWATER (DGW) 7.25
LENGTH OF WATER COLUMN (LWC) = TWD - DGW = 14.25
CASING DIAMETER 4 IN.
ONE STANDING WELL VOLUME = 9.053 gal.

(NOTE 1/2" = 0.0102G/FT: 3/4" = 0.023 G/FT: 1" = 0.041G/FT: 2" = 0.163 G/FT: 4" = 0.653 G/FT: 6" = 1.46 G/FT)

THREE STANDING WELL VOLUMES = 27.159 FIVE STANDING WELL VOLUMES = 45.265

METHOD OF WELL EVACUATION: BAILER / PUMP OTHER: TYPE per.

TOTAL VOLUME OF WATER REMOVED: GAL.

WELL TYPE: FLUSH MOUNT ABOVE GRADE COMMENTS 2.42 speed

LOCKING CAP YES X NO
PROTECTIVE POST/ABUTMENT YES NO X
NONPOTABLE LABEL YES X NO
ID PLATE YES X NO
WELL INTEGRITY SATISFACTORY YES X NO
WELL YIELD LOW MODERATE X HIGH

turbidity slowly stabilizing
* much longer than others

5
10
15
20
25

Table with 8 columns: Well Volume Removed, pH, Cond. (µS/cm), Turbidity (NTU), Dis. O2 (mg/L), Temp (°C), ORP (mV), Notes. Rows contain data for depths 7.35' to 7.50'.

APPENDIX K

PWR OBSERVATION WELL MONITORING LABORATORY REPORTS



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13030064
Project Name:
Customer Name(s): Andy Clark, Jessica Bednarcik
Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)


Jason C Perkins
Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.03.15 12:50:58 -04'00'

Date: 3/14/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013005127	SPARTANBURG	28-Feb-13 8:30 AM	AMEC	490-20658 OR-10S
2013005128	SPARTANBURG	28-Feb-13 8:40 AM	AMEC	490-20658 OS-10E
2013005129	SPARTANBURG	28-Feb-13 9:55 AM	AMEC	490-20658 OR-3W
2013005130	SPARTANBURG	28-Feb-13 10:00 AM	AMEC	490-20658 OS-5E
2013005131	SPARTANBURG	28-Feb-13 11:10 AM	AMEC	490-20658 OR-5W
2013005132	SPARTANBURG	28-Feb-13 11:00 AM	AMEC	490-20658 OS-5N
2013005133	SPARTANBURG	28-Feb-13	AMEC	490-20658 DUP-2
2013005134	SPARTANBURG	28-Feb-13 12:00 PM	AMEC	490-20658 OS-5S
2013005135	SPARTANBURG	28-Feb-13 12:45 PM	AMEC	490-20658 OR-10W
2013005136	SPARTANBURG	28-Feb-13 8:00 AM	AMEC	490-20658 TRIP BLANK-4
2013005137	SPARTANBURG	28-Feb-13 1:25 PM	AMEC	490-20658 OS-10S
2013005138	SPARTANBURG	28-Feb-13 2:10 PM	AMEC	490-20658 OS-25S
2013005139	SPARTANBURG	28-Feb-13 2:20 PM	AMEC	490-20658 OS-15S
2013005140	SPARTANBURG	28-Feb-13 3:15 PM	AMEC	490-20658 OS-20S

14 Total Samples

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualifi Test America

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 3/14/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-10S
Collection Date: 28-Feb-13 8:30 AM

Sample #: 2013005127
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-10E
Collection Date: 28-Feb-13 8:40 AM

Sample #: 2013005128
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-3W
Collection Date: 28-Feb-13 9:55 AM

Sample #: 2013005129
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-3W

Collection Date: 28-Feb-13 9:55 AM

Sample #: 2013005129

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5E

Collection Date: 28-Feb-13 10:00 AM

Sample #: 2013005130

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-5W

Collection Date: 28-Feb-13 11:10 AM

Sample #: 2013005131

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-5W

Collection Date: 28-Feb-13 11:10 AM

Sample #: 2013005131

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5N

Collection Date: 28-Feb-13 11:00 AM

Sample #: 2013005132

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 DUP-2

Collection Date: 28-Feb-13

Sample #: 2013005133

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 DUP-2

Collection Date: 28-Feb-13

Sample #: 2013005133

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-5S

Collection Date: 28-Feb-13 12:00 PM

Sample #: 2013005134

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OR-10W

Collection Date: 28-Feb-13 12:45 PM

Sample #: 2013005135

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OR-10W
Collection Date: 28-Feb-13 12:45 PM

Sample #: 2013005135
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 TRIP BLANK-4
Collection Date: 28-Feb-13 8:00 AM

Sample #: 2013005136
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-10S
Collection Date: 28-Feb-13 1:25 PM

Sample #: 2013005137
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-25S
Collection Date: 28-Feb-13 2:10 PM

Sample #: 2013005138
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

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Order # J13030064

Site: 490-20658 OS-25S
Collection Date: 28-Feb-13 2:10 PM

Sample #: 2013005138
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-15S
Collection Date: 28-Feb-13 2:20 PM

Sample #: 2013005139
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-20658 OS-20S
Collection Date: 28-Feb-13 3:15 PM

Sample #: 2013005140
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13030064

Site: 490-20658 OS-20S

Collection Date: 28-Feb-13 3:15 PM

Sample #: 2013005140

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-20658-1
Client Project/Site: Pine Street MGP (Spartanburg) J13030064

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
3/13/2013 2:29:11 PM

Shali Brown
Project Manager I
shali.brown@testamericainc.com



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-20658-1	OR-10S	Water	02/28/13 08:30	03/01/13 13:21
490-20658-2	OS-10E	Water	02/28/13 08:40	03/01/13 13:21
490-20658-3	OR-3W	Water	02/28/13 09:55	03/01/13 13:21
490-20658-4	OS-5E	Water	02/28/13 10:00	03/01/13 13:21
490-20658-5	OR-5W	Water	02/28/13 11:10	03/01/13 13:21
490-20658-6	OS-5N	Water	02/28/13 11:00	03/01/13 13:21
490-20658-7	Dup-2	Water	02/28/13 00:00	03/01/13 13:21
490-20658-8	OS-5S	Water	02/28/13 12:00	03/01/13 13:21
490-20658-9	OR-10W	Water	02/28/13 12:45	03/01/13 13:21
490-20658-10	Trip Blank-4	Water	02/28/13 08:00	03/01/13 13:21
490-20658-11	OS-10S	Water	02/28/13 13:25	03/01/13 13:21
490-20658-12	OS-25S	Water	02/28/13 14:10	03/01/13 13:21
490-20658-13	OS-15S	Water	02/28/13 14:20	03/01/13 13:21
490-20658-14	OS-20S	Water	02/28/13 15:15	03/01/13 13:21



Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE**Client: Duke Energy Corporation****Project: Pine Street MGP (Spartanburg) J13030064****Report Number: 490-20658-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/1/2013 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were -0.1° C, 0.2° C, 0.3° C, 0.3° C, 0.8° C and 1.0° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), Trip Blank-4 (490-20658-10), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/05/2013.

Naphthalene failed the recovery criteria high for the MS of sample OR-10WMS (490-20658-9) in batch 490-62691. The associated laboratory control sample (LCS) recovery met acceptance criteria.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Dup-2 (490-20658-7) and OS-5S (490-20658-8).

Samples OR-10S (490-20658-1)[20X], OR-3W (490-20658-3)[5X], OR-5W (490-20658-5)[10X], OS-10S (490-20658-11)[5X], OS-25S

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)**

(490-20658-12)[10X] and OS-20S (490-20658-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/06/2013 and analyzed on 03/07/2013 and 03/08/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 63231.

Samples OR-10S (490-20658-1)[10X], OR-10S (490-20658-1)[100X], OR-3W (490-20658-3)[10X], OR-5W (490-20658-5)[10X], Dup-2 (490-20658-7)[10X], OS-5S (490-20658-8)[10X], OR-10W (490-20658-9)[10X], OS-10S (490-20658-11)[10X], OS-25S (490-20658-12)[10X], OS-15S (490-20658-13)[2X] and OS-20S (490-20658-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 03/05/2013 and 03/06/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 62941. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

The following sample(s) was diluted due to the nature of the sample matrix: 490-20658-d-1. Sample was a foamer. Elevated reporting limits (RLs) are provided.

The following sample(s) were collected in properly preserved vials, however, the pH was outside the required criteria when verified by the laboratory: Dup-2 (490-20658-7) and OS-5S (490-20658-8).

Sample OR-10S (490-20658-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the GRO analyses. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 03/05/2013 and analyzed on 03/05/2013 and 03/06/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 62734.

Samples OR-10S (490-20658-1)[5X], OR-3W (490-20658-3)[4X], OR-5W (490-20658-5)[5X], Dup-2 (490-20658-7)[4X], OS-5S (490-20658-8)[4X], OR-10W (490-20658-9)[2X], OS-10S (490-20658-11)[4X], OS-25S (490-20658-12)[5X] and OS-20S (490-20658-14)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)****TOTAL METALS (ICP)**

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/06/2013 and 03/08/2013 and analyzed on 03/07/2013, 03/08/2013 and 03/11/2013.

The reference method requires samples to be preserved to a pH of <2. The following sample(s) was received with insufficient preservation: (490-20658-7 MS), (490-20658-7 MSD), Dup-2 (490-20658-7), OS-5S (490-20658-8). The sample(s) was preserved to the appropriate pH in the laboratory on 3/6/13 at 1630. Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Chromium failed the recovery criteria low for the MS and MSD of sample Dup-2MS (490-20658-7)/Dup-2MSD (490-20658-7) in batch 490-64234. The associated laboratory control sample (LCS) met acceptance criteria.
Selenium failed the recovery criteria high for the MS and MSD of sample 490-20658-1 in batch 490-63655. The associated laboratory control sample (LCS) met acceptance criteria.

The serial dilution performed for the following sample(s) associated with batch 490-63228 was outside control limits for K and S:
490-20658-G-1 (490-20658-1 SD)

The post digestion spike % recovery for As, Cu, Fe, Pb, Se, Ti, V, Ag, Mg, Sb, and Li associated with batch 490-63705 was outside of control limits: 490-20658-7 (Dup-2)

The continuing calibration verification (CCV) for analytical batch 63655 exceeded control criteria for Na and S due to carryover from the previous samples. The data have been qualified and reported.

The following sample(s) was diluted due to the abundance of non-target analytes: Mn, Na, and S. OR-10S (490-20658-1). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of non-target analytes: Na and S Dup-2 (490-20658-7), OS-5S (490-20658-8). Elevated reporting limits (RLs) are provided.

Samples OR-10S (490-20658-1)[100X], OR-5W (490-20658-5)[10X], Dup-2 (490-20658-7)[100X] and OS-5S (490-20658-8)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

SULFATE

Samples OR-10S (490-20658-1), OS-10E (490-20658-2), OR-3W (490-20658-3), OS-5E (490-20658-4), OR-5W (490-20658-5), OS-5N (490-20658-6), Dup-2 (490-20658-7), OS-5S (490-20658-8), OR-10W (490-20658-9), OS-10S (490-20658-11), OS-25S (490-20658-12), OS-15S (490-20658-13) and OS-20S (490-20658-14) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 03/06/2013, 03/08/2013 and 03/13/2013.

Samples OR-10S (490-20658-1)[500X], OS-10E (490-20658-2)[5X], OR-3W (490-20658-3)[100X], OS-5E (490-20658-4)[10X], OR-5W (490-20658-5)[50X], OS-5N (490-20658-6)[50X], Dup-2 (490-20658-7)[500X], OS-5S (490-20658-8)[500X], OR-10W (490-20658-9)[200X], OS-10S (490-20658-11)[100X], OS-25S (490-20658-12)[10X] and OS-20S (490-20658-14)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the sulfate analyses. All quality control parameters were within the acceptance limits.

Organic Prep

Method(s) 3510C: The following sample(s) was improperly preserved in the field: Dup-2 (490-20658-7), OS-5S (490-20658-8). The preservative used is not compatible with the analytes requested. Samples had a pH 7, lab preserved to pH 2 using sulfuric acid.

Method(s) 3510C: Samples 490-20658-K-7 and 490-20658-K-8 ate the surrogate for code 8270 D during the acid shake.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Job ID: 490-20658-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

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Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 02:59	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2,4-Trimethylbenzene	10.5		1.00	ug/L			03/05/13 02:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 02:59	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 02:59	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 02:59	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 02:59	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 02:59	1
2-Hexanone	ND		10.0	ug/L			03/05/13 02:59	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 02:59	1
Acetone	210		50.0	ug/L			03/05/13 02:59	1
Benzene	20.6		1.00	ug/L			03/05/13 02:59	1
Bromobenzene	ND		1.00	ug/L			03/05/13 02:59	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 02:59	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 02:59	1
Bromoform	ND		1.00	ug/L			03/05/13 02:59	1
Bromomethane	1.89		1.00	ug/L			03/05/13 02:59	1
Carbon disulfide	27.7		1.00	ug/L			03/05/13 02:59	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 02:59	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 02:59	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 02:59	1
Chloroethane	ND		1.00	ug/L			03/05/13 02:59	1
Chloroform	ND		1.00	ug/L			03/05/13 02:59	1
Chloromethane	4.76		1.00	ug/L			03/05/13 02:59	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
Dibromomethane	ND		1.00	ug/L			03/05/13 02:59	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 02:59	1
Ethylbenzene	56.8		1.00	ug/L			03/05/13 02:59	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 02:59	1
Isopropylbenzene	9.98		1.00	ug/L			03/05/13 02:59	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 02:59	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 02:59	1
Naphthalene	1580		100	ug/L			03/05/13 18:01	20
n-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
N-Propylbenzene	3.33		1.00	ug/L			03/05/13 02:59	1
p-Isopropyltoluene	1.06		1.00	ug/L			03/05/13 02:59	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
Styrene	ND		1.00	ug/L			03/05/13 02:59	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 02:59	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 02:59	1
Toluene	3.45		1.00	ug/L			03/05/13 02:59	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 02:59	1
Trichloroethene	ND		1.00	ug/L			03/05/13 02:59	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 02:59	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 02:59	1
Xylenes, Total	29.2		3.00	ug/L			03/05/13 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/05/13 02:59	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/05/13 18:01	20
4-Bromofluorobenzene (Surr)	99		70 - 130		03/05/13 02:59	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 18:01	20
Dibromofluoromethane (Surr)	100		70 - 130		03/05/13 02:59	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 18:01	20
Toluene-d8 (Surr)	96		70 - 130		03/05/13 02:59	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 18:01	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
1-Methylnaphthalene	371		20.0	ug/L		03/06/13 14:57	03/08/13 11:01	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Methylnaphthalene	491		20.0	ug/L		03/06/13 14:57	03/08/13 11:01	10
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Acenaphthylene	3.60		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Acenaphthene	49.2		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-chloroethoxy)methane	11.1		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dibenzofuran	10.2		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Fluorene	14.9		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Naphthalene	1690		200	ug/L		03/06/13 14:57	03/08/13 15:16	100
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Phenanthrene	13.7		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 19:52	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 19:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			03/06/13 14:57	03/07/13 19:52	1
2-Fluorobiphenyl (Surr)	60		29 - 120			03/06/13 14:57	03/07/13 19:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	41		10 - 120	03/06/13 14:57	03/07/13 19:52	1
Nitrobenzene-d5 (Surr)	52		27 - 120	03/06/13 14:57	03/07/13 19:52	1
Phenol-d5 (Surr)	27		10 - 120	03/06/13 14:57	03/07/13 19:52	1
Terphenyl-d14 (Surr)	74		13 - 120	03/06/13 14:57	03/07/13 19:52	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			03/05/13 22:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150		03/05/13 22:26	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4860		526	ug/L		03/05/13 07:48	03/06/13 11:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		50 - 150	03/05/13 07:48	03/06/13 11:51	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	18100		500	mg/L			03/06/13 18:02	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Chromium	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Cobalt	ND		2.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Copper	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Iron	ND		10.0	mg/L		03/06/13 14:45	03/08/13 10:38	100
Lead	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Manganese	40.7		1.50	mg/L		03/06/13 14:45	03/08/13 10:38	100
Nickel	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Selenium	ND		1.00	mg/L		03/06/13 14:45	03/08/13 10:38	100
Thallium	ND		0.500	mg/L		03/06/13 14:45	03/08/13 10:38	100
Vanadium	ND		2.00	mg/L		03/06/13 14:45	03/08/13 10:38	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 15:45	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 15:45	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 15:45	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 15:45	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 15:45	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 15:45	1
2-Hexanone	ND		10.0	ug/L			03/05/13 15:45	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 15:45	1
Acetone	ND		50.0	ug/L			03/05/13 15:45	1
Benzene	ND		1.00	ug/L			03/05/13 15:45	1
Bromobenzene	ND		1.00	ug/L			03/05/13 15:45	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 15:45	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 15:45	1
Bromoform	ND		1.00	ug/L			03/05/13 15:45	1
Bromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 15:45	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 15:45	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 15:45	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Chloroethane	ND		1.00	ug/L			03/05/13 15:45	1
Chloroform	ND		1.00	ug/L			03/05/13 15:45	1
Chloromethane	ND		1.00	ug/L			03/05/13 15:45	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
Dibromomethane	ND		1.00	ug/L			03/05/13 15:45	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 15:45	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 15:45	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 15:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 15:45	1
Naphthalene	ND		5.00	ug/L			03/05/13 15:45	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 15:45	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Styrene	ND		1.00	ug/L			03/05/13 15:45	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 15:45	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 15:45	1
Toluene	ND		1.00	ug/L			03/05/13 15:45	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 15:45	1
Trichloroethene	ND		1.00	ug/L			03/05/13 15:45	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 15:45	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 15:45	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		03/05/13 15:45	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 15:45	1
Dibromofluoromethane (Surr)	102		70 - 130		03/05/13 15:45	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 15:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,2-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,3-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1,4-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
1-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4,5-Trichlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4,6-Trichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dimethylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dinitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,4-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2,6-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Chloronaphthalene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Chlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
2-Nitrophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3,3'-Dichlorobenzidine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3 & 4 Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
3-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4,6-Dinitro-2-methylphenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Bromophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Chloro-3-methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Chlorophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
4-Nitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
Acenaphthylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Acenaphthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[a]anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[a]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[b]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[g,h,i]perylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Benzo[k]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-chloroethoxy)methane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-chloroethyl)ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Bis(2-ethylhexyl) phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
bis (2-chloroisopropyl) ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Butyl benzyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Carbazole	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Chrysene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Cresols	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dibenz(a,h)anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dibenzofuran	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Diethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Dimethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Di-n-butyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Di-n-octyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Fluorene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorobutadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachlorocyclopentadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Hexachloroethane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Indeno[1,2,3-cd]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Isophorone	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Naphthalene	2.57		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Nitrobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
N-Nitrosodi-n-propylamine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Pentachlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 20:13	1
Phenanthrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Phenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 20:13	1
Pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120			03/06/13 14:57	03/07/13 20:13	1
2-Fluorobiphenyl (Surr)	71		29 - 120			03/06/13 14:57	03/07/13 20:13	1
2-Fluorophenol (Surr)	42		10 - 120			03/06/13 14:57	03/07/13 20:13	1
Nitrobenzene-d5 (Surr)	67		27 - 120			03/06/13 14:57	03/07/13 20:13	1
Phenol-d5 (Surr)	26		10 - 120			03/06/13 14:57	03/07/13 20:13	1
Terphenyl-d14 (Surr)	90		13 - 120			03/06/13 14:57	03/07/13 20:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/05/13 22:56	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	92		50 - 150				03/05/13 22:56	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	152		125	ug/L		03/05/13 07:48	03/05/13 15:21	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	66		50 - 150			03/05/13 07:48	03/05/13 15:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	94.2		5.00	mg/L			03/13/13 00:05	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:23	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Iron	1.20		0.100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Lead	0.00550		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Manganese	1.02		0.0150	mg/L		03/06/13 14:45	03/07/13 22:23	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:23	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:23	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 03:53	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2,4-Trimethylbenzene	19.1		1.00	ug/L			03/05/13 03:53	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 03:53	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 03:53	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,3,5-Trimethylbenzene	3.91		1.00	ug/L			03/05/13 03:53	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 03:53	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 03:53	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 03:53	1
2-Hexanone	ND		10.0	ug/L			03/05/13 03:53	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 03:53	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 03:53	1
Acetone	ND		50.0	ug/L			03/05/13 03:53	1
Benzene	1.54		1.00	ug/L			03/05/13 03:53	1
Bromobenzene	ND		1.00	ug/L			03/05/13 03:53	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 03:53	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 03:53	1
Bromoform	ND		1.00	ug/L			03/05/13 03:53	1
Bromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Carbon disulfide	1.31		1.00	ug/L			03/05/13 03:53	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 03:53	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 03:53	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Chloroethane	ND		1.00	ug/L			03/05/13 03:53	1
Chloroform	ND		1.00	ug/L			03/05/13 03:53	1
Chloromethane	ND		1.00	ug/L			03/05/13 03:53	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
Dibromomethane	ND		1.00	ug/L			03/05/13 03:53	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 03:53	1
Ethylbenzene	3.75		1.00	ug/L			03/05/13 03:53	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 03:53	1
Isopropylbenzene	2.75		1.00	ug/L			03/05/13 03:53	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 03:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 03:53	1
Naphthalene	452		25.0	ug/L			03/05/13 18:28	5
n-Butylbenzene	1.77		1.00	ug/L			03/05/13 03:53	1
N-Propylbenzene	1.18		1.00	ug/L			03/05/13 03:53	1
p-Isopropyltoluene	1.11		1.00	ug/L			03/05/13 03:53	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 03:53	1
Styrene	ND		1.00	ug/L			03/05/13 03:53	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 03:53	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 03:53	1
Toluene	ND		1.00	ug/L			03/05/13 03:53	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 03:53	1
Trichloroethene	ND		1.00	ug/L			03/05/13 03:53	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 03:53	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 03:53	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		03/05/13 03:53	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		03/05/13 18:28	5
4-Bromofluorobenzene (Surr)	101		70 - 130		03/05/13 03:53	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 18:28	5
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 03:53	1
Dibromofluoromethane (Surr)	109		70 - 130		03/05/13 18:28	5
Toluene-d8 (Surr)	98		70 - 130		03/05/13 03:53	1
Toluene-d8 (Surr)	98		70 - 130		03/05/13 18:28	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
1-Methylnaphthalene	242		20.0	ug/L		03/06/13 14:57	03/08/13 11:22	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Methylnaphthalene	55.5		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Acenaphthene	62.2		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dibenzofuran	12.9		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Fluoranthene	2.21		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Fluorene	22.0		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Naphthalene	386		20.0	ug/L		03/06/13 14:57	03/08/13 11:22	10
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Phenanthrene	33.7		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 20:34	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120	03/06/13 14:57	03/07/13 20:34	1
2-Fluorobiphenyl (Surr)	73		29 - 120	03/06/13 14:57	03/07/13 20:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	44		10 - 120	03/06/13 14:57	03/07/13 20:34	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/06/13 14:57	03/07/13 20:34	1
Phenol-d5 (Surr)	28		10 - 120	03/06/13 14:57	03/07/13 20:34	1
Terphenyl-d14 (Surr)	90		13 - 120	03/06/13 14:57	03/07/13 20:34	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	108		100	ug/L			03/05/13 23:27	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	93		50 - 150		03/05/13 23:27	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2810		400	ug/L		03/05/13 07:48	03/06/13 12:07	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	76		50 - 150		03/05/13 07:48	03/06/13 12:07	4	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3680		100	mg/L			03/06/13 18:41	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Chromium	0.0666		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Cobalt	0.0629		0.0200	mg/L		03/06/13 14:45	03/07/13 22:27	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Iron	0.183		0.100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Manganese	9.22		0.0150	mg/L		03/06/13 14:45	03/07/13 22:27	1
Nickel	0.0457		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:27	1
Thallium	0.0107		0.00500	mg/L		03/06/13 14:45	03/07/13 22:27	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:27	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 16:12	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 16:12	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 16:12	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:12	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 16:12	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:12	1
2-Hexanone	ND		10.0	ug/L			03/05/13 16:12	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 16:12	1
Acetone	ND		50.0	ug/L			03/05/13 16:12	1
Benzene	ND		1.00	ug/L			03/05/13 16:12	1
Bromobenzene	ND		1.00	ug/L			03/05/13 16:12	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 16:12	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 16:12	1
Bromoform	ND		1.00	ug/L			03/05/13 16:12	1
Bromomethane	1.73		1.00	ug/L			03/05/13 16:12	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 16:12	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 16:12	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 16:12	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 16:12	1
Chloroethane	ND		1.00	ug/L			03/05/13 16:12	1
Chloroform	ND		1.00	ug/L			03/05/13 16:12	1
Chloromethane	2.48		1.00	ug/L			03/05/13 16:12	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
Dibromomethane	ND		1.00	ug/L			03/05/13 16:12	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 16:12	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 16:12	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 16:12	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 16:12	1
Naphthalene	ND		5.00	ug/L			03/05/13 16:12	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 16:12	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Styrene	ND		1.00	ug/L			03/05/13 16:12	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 16:12	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 16:12	1
Toluene	ND		1.00	ug/L			03/05/13 16:12	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:12	1
Trichloroethene	ND		1.00	ug/L			03/05/13 16:12	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 16:12	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 16:12	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		03/05/13 16:12	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 16:12	1
Dibromofluoromethane (Surr)	101		70 - 130		03/05/13 16:12	1
Toluene-d8 (Surr)	96		70 - 130		03/05/13 16:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,2-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,3-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1,4-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
1-Methylnaphthalene	17.8		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4,5-Trichlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dimethylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dinitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,4-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2,6-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Chloronaphthalene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Chlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Methylnaphthalene	2.75		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
2-Nitrophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3 & 4 Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
3-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
4-Nitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
Acenaphthylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Acenaphthene	2.81		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[a]anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[a]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[b]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Benzo[k]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Bis(2-ethylhexyl) phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Butyl benzyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Carbazole	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Chrysene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Cresols	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dibenzofuran	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Diethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Dimethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Di-n-butyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Di-n-octyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Fluorene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorobutadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Hexachloroethane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Isophorone	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Naphthalene	29.1		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Nitrobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Pentachlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 20:55	1
Phenanthrene	2.92		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
Phenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 20:55	1
Pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 20:55	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	82		10 - 120			03/06/13 14:57	03/07/13 20:55	1
<i>2-Fluorobiphenyl (Surr)</i>	76		29 - 120			03/06/13 14:57	03/07/13 20:55	1
<i>2-Fluorophenol (Surr)</i>	53		10 - 120			03/06/13 14:57	03/07/13 20:55	1
<i>Nitrobenzene-d5 (Surr)</i>	76		27 - 120			03/06/13 14:57	03/07/13 20:55	1
<i>Phenol-d5 (Surr)</i>	32		10 - 120			03/06/13 14:57	03/07/13 20:55	1
<i>Terphenyl-d14 (Surr)</i>	90		13 - 120			03/06/13 14:57	03/07/13 20:55	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/05/13 23:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>91</i>		<i>50 - 150</i>				<i>03/05/13 23:57</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	460		118	ug/L		03/05/13 07:48	03/05/13 15:53	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>69</i>		<i>50 - 150</i>			<i>03/05/13 07:48</i>	<i>03/05/13 15:53</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	948		10.0	mg/L			03/06/13 19:00	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Chromium	0.0969		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:30	1
Copper	0.0123		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Iron	0.173		0.100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Lead	0.0233		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Manganese	0.124		0.0150	mg/L		03/06/13 14:45	03/07/13 22:30	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:30	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:30	1
Vanadium	0.0979		0.0200	mg/L		03/06/13 14:45	03/07/13 22:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 04:47	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2,4-Trimethylbenzene	29.1		1.00	ug/L			03/05/13 04:47	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 04:47	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 04:47	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,3,5-Trimethylbenzene	6.98		1.00	ug/L			03/05/13 04:47	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 04:47	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 04:47	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 04:47	1
2-Hexanone	ND		10.0	ug/L			03/05/13 04:47	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 04:47	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 04:47	1
Acetone	ND		50.0	ug/L			03/05/13 04:47	1
Benzene	1.35		1.00	ug/L			03/05/13 04:47	1
Bromobenzene	ND		1.00	ug/L			03/05/13 04:47	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 04:47	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 04:47	1
Bromoform	ND		1.00	ug/L			03/05/13 04:47	1
Bromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Carbon disulfide	1.01		1.00	ug/L			03/05/13 04:47	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 04:47	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 04:47	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Chloroethane	ND		1.00	ug/L			03/05/13 04:47	1
Chloroform	ND		1.00	ug/L			03/05/13 04:47	1
Chloromethane	ND		1.00	ug/L			03/05/13 04:47	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
Dibromomethane	ND		1.00	ug/L			03/05/13 04:47	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 04:47	1
Ethylbenzene	3.76		1.00	ug/L			03/05/13 04:47	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 04:47	1
Isopropylbenzene	2.76		1.00	ug/L			03/05/13 04:47	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 04:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 04:47	1
Naphthalene	657		50.0	ug/L			03/05/13 18:56	10
n-Butylbenzene	2.68		1.00	ug/L			03/05/13 04:47	1
N-Propylbenzene	1.10		1.00	ug/L			03/05/13 04:47	1
p-Isopropyltoluene	1.60		1.00	ug/L			03/05/13 04:47	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 04:47	1
Styrene	ND		1.00	ug/L			03/05/13 04:47	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 04:47	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 04:47	1
Toluene	ND		1.00	ug/L			03/05/13 04:47	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 04:47	1
Trichloroethene	ND		1.00	ug/L			03/05/13 04:47	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 04:47	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 04:47	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/05/13 04:47	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		03/05/13 18:56	10
4-Bromofluorobenzene (Surr)	101		70 - 130		03/05/13 04:47	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 18:56	10
Dibromofluoromethane (Surr)	96		70 - 130		03/05/13 04:47	1
Dibromofluoromethane (Surr)	97		70 - 130		03/05/13 18:56	10
Toluene-d8 (Surr)	98		70 - 130		03/05/13 04:47	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 18:56	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
1-Methylnaphthalene	462		20.8	ug/L		03/06/13 14:57	03/08/13 11:43	10
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Methylnaphthalene	62.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Acenaphthene	87.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dibenzofuran	15.5		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Fluoranthene	2.16		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Fluorene	26.6		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Naphthalene	619		20.8	ug/L		03/06/13 14:57	03/08/13 11:43	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:16	1
Phenanthrene	32.8		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:16	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120	03/06/13 14:57	03/07/13 21:16	1
2-Fluorobiphenyl (Surr)	73		29 - 120	03/06/13 14:57	03/07/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	48		10 - 120	03/06/13 14:57	03/07/13 21:16	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/06/13 14:57	03/07/13 21:16	1
Phenol-d5 (Surr)	28		10 - 120	03/06/13 14:57	03/07/13 21:16	1
Terphenyl-d14 (Surr)	90		13 - 120	03/06/13 14:57	03/07/13 21:16	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	133		100	ug/L			03/06/13 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/06/13 00:27	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3270		526	ug/L		03/05/13 07:48	03/06/13 12:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	60		50 - 150	03/05/13 07:48	03/06/13 12:24	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2790		50.0	mg/L			03/06/13 19:19	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Cobalt	0.0775		0.0200	mg/L		03/06/13 14:45	03/07/13 22:34	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Iron	0.412		0.100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Lead	0.00510		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Manganese	10.8		0.150	mg/L		03/06/13 14:45	03/08/13 10:42	10
Nickel	0.0529		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:34	1
Thallium	0.0138		0.00500	mg/L		03/06/13 14:45	03/07/13 22:34	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 16:40	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 16:40	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 16:40	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 16:40	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 16:40	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:40	1
2-Hexanone	ND		10.0	ug/L			03/05/13 16:40	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 16:40	1
Acetone	ND		50.0	ug/L			03/05/13 16:40	1
Benzene	ND		1.00	ug/L			03/05/13 16:40	1
Bromobenzene	ND		1.00	ug/L			03/05/13 16:40	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 16:40	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 16:40	1
Bromoform	ND		1.00	ug/L			03/05/13 16:40	1
Bromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 16:40	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 16:40	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 16:40	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Chloroethane	ND		1.00	ug/L			03/05/13 16:40	1
Chloroform	ND		1.00	ug/L			03/05/13 16:40	1
Chloromethane	1.00		1.00	ug/L			03/05/13 16:40	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
Dibromomethane	ND		1.00	ug/L			03/05/13 16:40	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 16:40	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 16:40	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 16:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 16:40	1
Naphthalene	ND		5.00	ug/L			03/05/13 16:40	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 16:40	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Styrene	ND		1.00	ug/L			03/05/13 16:40	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 16:40	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 16:40	1
Toluene	ND		1.00	ug/L			03/05/13 16:40	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 16:40	1
Trichloroethene	ND		1.00	ug/L			03/05/13 16:40	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 16:40	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 16:40	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130				03/05/13 16:40	1
4-Bromofluorobenzene (Surr)	99		70 - 130				03/05/13 16:40	1
Dibromofluoromethane (Surr)	98		70 - 130				03/05/13 16:40	1
Toluene-d8 (Surr)	97		70 - 130				03/05/13 16:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
1-Methylnaphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Methylnaphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Acenaphthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dibenzofuran	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Fluorene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Naphthalene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:37	1
Phenanthrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:37	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		10 - 120			03/06/13 14:57	03/07/13 21:37	1
2-Fluorobiphenyl (Surr)	36		29 - 120			03/06/13 14:57	03/07/13 21:37	1
2-Fluorophenol (Surr)	20		10 - 120			03/06/13 14:57	03/07/13 21:37	1
Nitrobenzene-d5 (Surr)	36		27 - 120			03/06/13 14:57	03/07/13 21:37	1
Phenol-d5 (Surr)	13		10 - 120			03/06/13 14:57	03/07/13 21:37	1
Terphenyl-d14 (Surr)	57		13 - 120			03/06/13 14:57	03/07/13 21:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 00:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	94		50 - 150				03/06/13 00:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		118	ug/L		03/05/13 07:48	03/05/13 16:25	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	68		50 - 150			03/05/13 07:48	03/05/13 16:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1160		50.0	mg/L			03/06/13 20:16	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Chromium	0.0605		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Cobalt	0.0700		0.0200	mg/L		03/06/13 14:45	03/07/13 22:51	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Iron	0.944		0.100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Manganese	7.34		0.0150	mg/L		03/06/13 14:45	03/07/13 22:51	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:51	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:51	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:51	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2
Date Collected: 02/28/13 00:00
Date Received: 03/01/13 13:21

Lab Sample ID: 490-20658-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 05:41	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 05:41	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 05:41	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 05:41	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 05:41	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 05:41	1
2-Hexanone	ND		10.0	ug/L			03/05/13 05:41	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 05:41	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 05:41	1
Acetone	530		50.0	ug/L			03/05/13 05:41	1
Benzene	ND		1.00	ug/L			03/05/13 05:41	1
Bromobenzene	ND		1.00	ug/L			03/05/13 05:41	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 05:41	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 05:41	1
Bromoform	ND		1.00	ug/L			03/05/13 05:41	1
Bromomethane	29.9		1.00	ug/L			03/05/13 05:41	1
Carbon disulfide	2.01		1.00	ug/L			03/05/13 05:41	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 05:41	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 05:41	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 05:41	1
Chloroethane	ND		1.00	ug/L			03/05/13 05:41	1
Chloroform	ND		1.00	ug/L			03/05/13 05:41	1
Chloromethane	47.5		1.00	ug/L			03/05/13 05:41	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
Dibromomethane	ND		1.00	ug/L			03/05/13 05:41	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 05:41	1
Ethylbenzene	3.30		1.00	ug/L			03/05/13 05:41	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 05:41	1
Isopropylbenzene	1.90		1.00	ug/L			03/05/13 05:41	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 05:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 05:41	1
Naphthalene	ND		5.00	ug/L			03/05/13 05:41	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 05:41	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
Styrene	ND		1.00	ug/L			03/05/13 05:41	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 05:41	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 05:41	1
Toluene	ND		1.00	ug/L			03/05/13 05:41	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 05:41	1
Trichloroethene	ND		1.00	ug/L			03/05/13 05:41	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 05:41	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 05:41	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				03/05/13 05:41	1
4-Bromofluorobenzene (Surr)	100		70 - 130				03/05/13 05:41	1
Dibromofluoromethane (Surr)	99		70 - 130				03/05/13 05:41	1
Toluene-d8 (Surr)	97		70 - 130				03/05/13 05:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
1-Methylnaphthalene	112		20.8	ug/L		03/06/13 14:57	03/08/13 12:04	10
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Methylnaphthalene	98.0		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Acenaphthene	2.24		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dibenzofuran	14.8		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Fluorene	13.2		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Naphthalene	210		20.8	ug/L		03/06/13 14:57	03/08/13 12:04	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 21:58	1
Phenanthrene	26.7		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 21:58	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 21:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	75		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>2-Fluorobiphenyl (Surr)</i>	70		29 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>2-Fluorophenol (Surr)</i>	44		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Nitrobenzene-d5 (Surr)</i>	71		27 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Phenol-d5 (Surr)</i>	31		10 - 120			03/06/13 14:57	03/07/13 21:58	1
<i>Terphenyl-d14 (Surr)</i>	80		13 - 120			03/06/13 14:57	03/07/13 21:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 01:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	96		50 - 150				03/06/13 01:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3710		471	ug/L		03/05/13 07:48	03/06/13 12:40	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	101		50 - 150			03/05/13 07:48	03/06/13 12:40	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	13200		500	mg/L			03/06/13 20:36	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Chromium	2.11		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Cobalt	ND		2.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Copper	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Iron	ND		10.0	mg/L		03/08/13 09:40	03/11/13 13:07	100
Lead	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Manganese	ND		1.50	mg/L		03/08/13 09:40	03/11/13 13:07	100
Nickel	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Selenium	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:07	100
Thallium	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:07	100
Vanadium	2.49		2.00	mg/L		03/08/13 09:40	03/11/13 13:07	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 17:07	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2,4-Trimethylbenzene	3.09		1.00	ug/L			03/05/13 17:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 17:07	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 17:07	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,3,5-Trimethylbenzene	1.13		1.00	ug/L			03/05/13 17:07	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:07	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 17:07	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:07	1
2-Hexanone	ND		10.0	ug/L			03/05/13 17:07	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 17:07	1
Acetone	519		50.0	ug/L			03/05/13 17:07	1
Benzene	ND		1.00	ug/L			03/05/13 17:07	1
Bromobenzene	ND		1.00	ug/L			03/05/13 17:07	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 17:07	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 17:07	1
Bromoform	ND		1.00	ug/L			03/05/13 17:07	1
Bromomethane	29.8		1.00	ug/L			03/05/13 17:07	1
Carbon disulfide	1.91		1.00	ug/L			03/05/13 17:07	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 17:07	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 17:07	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 17:07	1
Chloroethane	ND		1.00	ug/L			03/05/13 17:07	1
Chloroform	ND		1.00	ug/L			03/05/13 17:07	1
Chloromethane	42.8		1.00	ug/L			03/05/13 17:07	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
Dibromomethane	ND		1.00	ug/L			03/05/13 17:07	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 17:07	1
Ethylbenzene	4.92		1.00	ug/L			03/05/13 17:07	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 17:07	1
Isopropylbenzene	2.50		1.00	ug/L			03/05/13 17:07	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 17:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 17:07	1
Naphthalene	43.0		5.00	ug/L			03/05/13 17:07	1
n-Butylbenzene	1.05		1.00	ug/L			03/05/13 17:07	1
N-Propylbenzene	1.22		1.00	ug/L			03/05/13 17:07	1
p-Isopropyltoluene	1.19		1.00	ug/L			03/05/13 17:07	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 17:07	1
Styrene	ND		1.00	ug/L			03/05/13 17:07	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 17:07	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 17:07	1
Toluene	ND		1.00	ug/L			03/05/13 17:07	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:07	1
Trichloroethene	ND		1.00	ug/L			03/05/13 17:07	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 17:07	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 17:07	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		03/05/13 17:07	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 17:07	1
Dibromofluoromethane (Surr)	100		70 - 130		03/05/13 17:07	1
Toluene-d8 (Surr)	96		70 - 130		03/05/13 17:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,2-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,3-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1,4-Dichlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
1-Methylnaphthalene	83.7		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4,5-Trichlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4,6-Trichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dichlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dimethylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dinitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,4-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2,6-Dinitrotoluene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Chloronaphthalene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Chlorophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Methylnaphthalene	76.4		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
2-Nitrophenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3,3'-Dichlorobenzidine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3 & 4 Methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
3-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4,6-Dinitro-2-methylphenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Bromophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Chloro-3-methylphenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Chlorophenyl phenyl ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Nitroaniline	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
4-Nitrophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
Acenaphthylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Acenaphthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[a]anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[a]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[b]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[g,h,i]perylene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Benzo[k]fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-chloroethoxy)methane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-chloroethyl)ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Bis(2-ethylhexyl) phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
bis (2-chloroisopropyl) ether	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Butyl benzyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Carbazole	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Chrysene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Cresols	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dibenz(a,h)anthracene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dibenzofuran	11.6		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Diethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Dimethyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Di-n-butyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Di-n-octyl phthalate	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Fluoranthene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Fluorene	10.5		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorobutadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachlorocyclopentadiene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Hexachloroethane	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Indeno[1,2,3-cd]pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Isophorone	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Naphthalene	195		20.8	ug/L		03/06/13 14:57	03/08/13 12:26	10
Nitrobenzene	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
N-Nitrosodi-n-propylamine	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Pentachlorophenol	ND		26.0	ug/L		03/06/13 14:57	03/07/13 22:20	1
Phenanthrene	19.4		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Phenol	ND		10.4	ug/L		03/06/13 14:57	03/07/13 22:20	1
Pyrene	ND		2.08	ug/L		03/06/13 14:57	03/07/13 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	52		10 - 120			03/06/13 14:57	03/07/13 22:20	1
2-Fluorobiphenyl (Surr)	49		29 - 120			03/06/13 14:57	03/07/13 22:20	1
2-Fluorophenol (Surr)	25		10 - 120			03/06/13 14:57	03/07/13 22:20	1
Nitrobenzene-d5 (Surr)	50		27 - 120			03/06/13 14:57	03/07/13 22:20	1
Phenol-d5 (Surr)	21		10 - 120			03/06/13 14:57	03/07/13 22:20	1
Terphenyl-d14 (Surr)	51		13 - 120			03/06/13 14:57	03/07/13 22:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 01:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	90		50 - 150				03/06/13 01:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2490		471	ug/L		03/05/13 07:48	03/06/13 12:56	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	60		50 - 150			03/05/13 07:48	03/06/13 12:56	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	17800		500	mg/L			03/06/13 20:55	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Chromium	2.04		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Cobalt	ND		2.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Copper	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Iron	ND		10.0	mg/L		03/08/13 09:40	03/11/13 13:18	100
Lead	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Manganese	ND		1.50	mg/L		03/08/13 09:40	03/11/13 13:18	100
Nickel	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Selenium	ND		1.00	mg/L		03/08/13 09:40	03/11/13 13:18	100
Thallium	ND		0.500	mg/L		03/08/13 09:40	03/11/13 13:18	100
Vanadium	2.11		2.00	mg/L		03/08/13 09:40	03/11/13 13:18	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 06:35	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2,4-Trimethylbenzene	1.32		1.00	ug/L			03/05/13 06:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 06:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 06:35	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 06:35	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 06:35	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 06:35	1
2-Hexanone	ND		10.0	ug/L			03/05/13 06:35	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 06:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 06:35	1
Acetone	50.8		50.0	ug/L			03/05/13 06:35	1
Benzene	1.32		1.00	ug/L			03/05/13 06:35	1
Bromobenzene	ND		1.00	ug/L			03/05/13 06:35	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 06:35	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 06:35	1
Bromoform	ND		1.00	ug/L			03/05/13 06:35	1
Bromomethane	2.79		1.00	ug/L			03/05/13 06:35	1
Carbon disulfide	8.36		1.00	ug/L			03/05/13 06:35	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 06:35	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 06:35	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 06:35	1
Chloroethane	ND		1.00	ug/L			03/05/13 06:35	1
Chloroform	ND		1.00	ug/L			03/05/13 06:35	1
Chloromethane	3.99		1.00	ug/L			03/05/13 06:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
Dibromomethane	ND		1.00	ug/L			03/05/13 06:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 06:35	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 06:35	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 06:35	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	14.6		5.00	ug/L			03/05/13 06:35	1
Naphthalene	189		5.00	ug/L			03/05/13 06:35	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 06:35	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Styrene	ND		1.00	ug/L			03/05/13 06:35	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 06:35	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 06:35	1
Toluene	ND		1.00	ug/L			03/05/13 06:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 06:35	1
Trichloroethene	ND		1.00	ug/L			03/05/13 06:35	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 06:35	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 06:35	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		70 - 130		03/05/13 06:35	1
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130		03/05/13 06:35	1
<i>Dibromofluoromethane (Surr)</i>	99		70 - 130		03/05/13 06:35	1
<i>Toluene-d8 (Surr)</i>	97		70 - 130		03/05/13 06:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,2-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,3-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1,4-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
1-Methylnaphthalene	87.2		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4,5-Trichlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4,6-Trichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dimethylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dinitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,4-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2,6-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Chloronaphthalene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Chlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Methylnaphthalene	20.5		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
2-Nitrophenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3,3'-Dichlorobenzidine	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3 & 4 Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
3-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4,6-Dinitro-2-methylphenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Bromophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Chloro-3-methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Chlorophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
4-Nitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
Acenaphthylene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Acenaphthene	7.90		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[a]anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[a]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[b]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[g,h,i]perylene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Benzo[k]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-chloroethoxy)methane	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-chloroethyl)ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Bis(2-ethylhexyl) phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
bis (2-chloroisopropyl) ether	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Butyl benzyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Carbazole	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Chrysene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Cresols	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dibenz(a,h)anthracene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dibenzofuran	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Diethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Dimethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Di-n-butyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Di-n-octyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Fluorene	6.74		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorobutadiene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachlorocyclopentadiene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Hexachloroethane	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Indeno[1,2,3-cd]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Isophorone	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Naphthalene	146		20.6	ug/L		03/06/13 14:57	03/08/13 12:48	10
Nitrobenzene	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
N-Nitrosodi-n-propylamine	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Pentachlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/07/13 22:41	1
Phenanthrene	13.3		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Phenol	ND		10.3	ug/L		03/06/13 14:57	03/07/13 22:41	1
Pyrene	ND		2.06	ug/L		03/06/13 14:57	03/07/13 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 120			03/06/13 14:57	03/07/13 22:41	1
2-Fluorobiphenyl (Surr)	67		29 - 120			03/06/13 14:57	03/07/13 22:41	1
2-Fluorophenol (Surr)	41		10 - 120			03/06/13 14:57	03/07/13 22:41	1
Nitrobenzene-d5 (Surr)	65		27 - 120			03/06/13 14:57	03/07/13 22:41	1
Phenol-d5 (Surr)	26		10 - 120			03/06/13 14:57	03/07/13 22:41	1
Terphenyl-d14 (Surr)	83		13 - 120			03/06/13 14:57	03/07/13 22:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 02:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	92		50 - 150				03/06/13 02:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1060		200	ug/L		03/05/13 07:48	03/06/13 13:12	2
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	74		50 - 150			03/05/13 07:48	03/06/13 13:12	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8030		200	mg/L			03/06/13 21:14	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Chromium	0.0937		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Cobalt	0.284		0.0200	mg/L		03/06/13 14:45	03/07/13 22:54	1
Copper	0.164		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Iron	4.36		0.100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Lead	0.0124		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Manganese	5.64		0.0150	mg/L		03/06/13 14:45	03/07/13 22:54	1
Nickel	0.121		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:54	1
Thallium	0.00580		0.00500	mg/L		03/06/13 14:45	03/07/13 22:54	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:54	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 01:38	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 01:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 01:38	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:38	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 01:38	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:38	1
2-Hexanone	ND		10.0	ug/L			03/05/13 01:38	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 01:38	1
Acetone	ND		50.0	ug/L			03/05/13 01:38	1
Benzene	ND		1.00	ug/L			03/05/13 01:38	1
Bromobenzene	ND		1.00	ug/L			03/05/13 01:38	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 01:38	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 01:38	1
Bromoform	ND		1.00	ug/L			03/05/13 01:38	1
Bromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 01:38	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 01:38	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 01:38	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Chloroethane	ND		1.00	ug/L			03/05/13 01:38	1
Chloroform	ND		1.00	ug/L			03/05/13 01:38	1
Chloromethane	ND		1.00	ug/L			03/05/13 01:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
Dibromomethane	ND		1.00	ug/L			03/05/13 01:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 01:38	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 01:38	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 01:38	1
Naphthalene	ND		5.00	ug/L			03/05/13 01:38	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 01:38	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Styrene	ND		1.00	ug/L			03/05/13 01:38	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 01:38	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 01:38	1
Toluene	ND		1.00	ug/L			03/05/13 01:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:38	1
Trichloroethene	ND		1.00	ug/L			03/05/13 01:38	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 01:38	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 01:38	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		03/05/13 01:38	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 01:38	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 01:38	1
Toluene-d8 (Surr)	98		70 - 130		03/05/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 07:03	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2,4-Trimethylbenzene	22.3		1.00	ug/L			03/05/13 07:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 07:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 07:03	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,3,5-Trimethylbenzene	1.48		1.00	ug/L			03/05/13 07:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:03	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 07:03	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:03	1
2-Hexanone	ND		10.0	ug/L			03/05/13 07:03	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 07:03	1
Acetone	210		50.0	ug/L			03/05/13 07:03	1
Benzene	ND		1.00	ug/L			03/05/13 07:03	1
Bromobenzene	ND		1.00	ug/L			03/05/13 07:03	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 07:03	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 07:03	1
Bromoform	ND		1.00	ug/L			03/05/13 07:03	1
Bromomethane	26.2		1.00	ug/L			03/05/13 07:03	1
Carbon disulfide	3.03		1.00	ug/L			03/05/13 07:03	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 07:03	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 07:03	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 07:03	1
Chloroethane	ND		1.00	ug/L			03/05/13 07:03	1
Chloroform	ND		1.00	ug/L			03/05/13 07:03	1
Chloromethane	26.9		1.00	ug/L			03/05/13 07:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
Dibromomethane	ND		1.00	ug/L			03/05/13 07:03	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 07:03	1
Ethylbenzene	8.19		1.00	ug/L			03/05/13 07:03	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 07:03	1
Isopropylbenzene	3.11		1.00	ug/L			03/05/13 07:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 07:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 07:03	1
Naphthalene	309		25.0	ug/L			03/05/13 19:23	5
n-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
N-Propylbenzene	1.73		1.00	ug/L			03/05/13 07:03	1
p-Isopropyltoluene	2.60		1.00	ug/L			03/05/13 07:03	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
Styrene	ND		1.00	ug/L			03/05/13 07:03	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 07:03	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 07:03	1
Toluene	ND		1.00	ug/L			03/05/13 07:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:03	1
Trichloroethene	ND		1.00	ug/L			03/05/13 07:03	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 07:03	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 07:03	1
Xylenes, Total	5.79		3.00	ug/L			03/05/13 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		03/05/13 07:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		03/05/13 19:23	5
4-Bromofluorobenzene (Surr)	100		70 - 130		03/05/13 07:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 19:23	5
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 07:03	1
Dibromofluoromethane (Surr)	97		70 - 130		03/05/13 19:23	5
Toluene-d8 (Surr)	98		70 - 130		03/05/13 07:03	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 19:23	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,2-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,3-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1,4-Dichlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
1-Methylnaphthalene	190		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
2,4,5-Trichlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dichlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dimethylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dinitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,4-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2,6-Dinitrotoluene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Chloronaphthalene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Chlorophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Methylnaphthalene	177		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
2-Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
2-Nitrophenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3 & 4 Methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
3-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Chloroaniline	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Nitroaniline	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
4-Nitrophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
Acenaphthylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Acenaphthene	44.5		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[a]anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[a]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[b]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Benzo[k]fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Bis(2-ethylhexyl) phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Butyl benzyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Carbazole	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Chrysene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Cresols	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dibenzofuran	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Diethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Dimethyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Di-n-butyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Di-n-octyl phthalate	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Fluoranthene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Fluorene	17.4		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorobutadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Hexachloroethane	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Isophorone	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Naphthalene	231		21.1	ug/L		03/06/13 14:57	03/08/13 13:09	10
Nitrobenzene	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Pentachlorophenol	ND		26.3	ug/L		03/06/13 14:57	03/07/13 23:02	1
Phenanthrene	28.7		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Phenol	ND		10.5	ug/L		03/06/13 14:57	03/07/13 23:02	1
Pyrene	ND		2.11	ug/L		03/06/13 14:57	03/07/13 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 120			03/06/13 14:57	03/07/13 23:02	1
2-Fluorobiphenyl (Surr)	61		29 - 120			03/06/13 14:57	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	36		10 - 120	03/06/13 14:57	03/07/13 23:02	1
Nitrobenzene-d5 (Surr)	60		27 - 120	03/06/13 14:57	03/07/13 23:02	1
Phenol-d5 (Surr)	24		10 - 120	03/06/13 14:57	03/07/13 23:02	1
Terphenyl-d14 (Surr)	73		13 - 120	03/06/13 14:57	03/07/13 23:02	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	120		100	ug/L			03/06/13 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/06/13 02:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2460		471	ug/L		03/05/13 07:48	03/06/13 13:28	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	86		50 - 150	03/05/13 07:48	03/06/13 13:28	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	8670		100	mg/L			03/06/13 21:34	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0360		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Chromium	0.00830		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Cobalt	0.220		0.0200	mg/L		03/06/13 14:45	03/07/13 22:58	1
Copper	0.0119		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Iron	ND		0.100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Lead	0.0293		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Manganese	5.17		0.0150	mg/L		03/06/13 14:45	03/07/13 22:58	1
Nickel	0.0652		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Selenium	0.0178		0.0100	mg/L		03/06/13 14:45	03/07/13 22:58	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:58	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:58	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 07:30	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2,4-Trimethylbenzene	21.1		1.00	ug/L			03/05/13 07:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 07:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 07:30	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,3,5-Trimethylbenzene	2.73		1.00	ug/L			03/05/13 07:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 07:30	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 07:30	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:30	1
2-Hexanone	ND		10.0	ug/L			03/05/13 07:30	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 07:30	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 07:30	1
Acetone	ND		50.0	ug/L			03/05/13 07:30	1
Benzene	27.4		1.00	ug/L			03/05/13 07:30	1
Bromobenzene	ND		1.00	ug/L			03/05/13 07:30	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 07:30	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 07:30	1
Bromoform	ND		1.00	ug/L			03/05/13 07:30	1
Bromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Carbon disulfide	11.7		1.00	ug/L			03/05/13 07:30	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 07:30	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 07:30	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Chloroethane	ND		1.00	ug/L			03/05/13 07:30	1
Chloroform	ND		1.00	ug/L			03/05/13 07:30	1
Chloromethane	ND		1.00	ug/L			03/05/13 07:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
Dibromomethane	ND		1.00	ug/L			03/05/13 07:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 07:30	1
Ethylbenzene	26.6		1.00	ug/L			03/05/13 07:30	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 07:30	1
Isopropylbenzene	7.44		1.00	ug/L			03/05/13 07:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 07:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 07:30	1
Naphthalene	732		50.0	ug/L			03/05/13 19:50	10
n-Butylbenzene	2.69		1.00	ug/L			03/05/13 07:30	1
N-Propylbenzene	4.80		1.00	ug/L			03/05/13 07:30	1
p-Isopropyltoluene	1.84		1.00	ug/L			03/05/13 07:30	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 07:30	1
Styrene	ND		1.00	ug/L			03/05/13 07:30	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 07:30	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 07:30	1
Toluene	ND		1.00	ug/L			03/05/13 07:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 07:30	1
Trichloroethene	ND		1.00	ug/L			03/05/13 07:30	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 07:30	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 07:30	1
Xylenes, Total	10.1		3.00	ug/L			03/05/13 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		03/05/13 07:30	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		03/05/13 19:50	10
4-Bromofluorobenzene (Surr)	101		70 - 130		03/05/13 07:30	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/05/13 19:50	10
Dibromofluoromethane (Surr)	97		70 - 130		03/05/13 07:30	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 19:50	10
Toluene-d8 (Surr)	98		70 - 130		03/05/13 07:30	1
Toluene-d8 (Surr)	98		70 - 130		03/05/13 19:50	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
1-Methylnaphthalene	424		20.0	ug/L		03/06/13 14:57	03/08/13 14:13	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Methylnaphthalene	59.3		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Acenaphthene	91.1		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Carbazole	15.4		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dibenzofuran	29.6		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Fluorene	39.3		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Naphthalene	409		20.0	ug/L		03/06/13 14:57	03/08/13 14:13	10
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Phenanthrene	39.7		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 23:23	1
Pyrene	2.02		2.00	ug/L		03/06/13 14:57	03/07/13 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 120			03/06/13 14:57	03/07/13 23:23	1
2-Fluorobiphenyl (Surr)	63		29 - 120			03/06/13 14:57	03/07/13 23:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	35		10 - 120	03/06/13 14:57	03/07/13 23:23	1
Nitrobenzene-d5 (Surr)	61		27 - 120	03/06/13 14:57	03/07/13 23:23	1
Phenol-d5 (Surr)	21		10 - 120	03/06/13 14:57	03/07/13 23:23	1
Terphenyl-d14 (Surr)	73		13 - 120	03/06/13 14:57	03/07/13 23:23	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	276		100	ug/L			03/06/13 03:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	92		50 - 150		03/06/13 03:29	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4770		526	ug/L		03/05/13 07:48	03/06/13 13:44	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	84		50 - 150		03/05/13 07:48	03/06/13 13:44	5	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	639		10.0	mg/L			03/06/13 21:53	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Chromium	0.0190		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:02	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Iron	16.7		0.100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Manganese	3.88		0.0150	mg/L		03/06/13 14:45	03/07/13 23:02	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:02	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:02	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 17:34	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2,4-Trimethylbenzene	3.65		1.00	ug/L			03/05/13 17:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 17:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 17:34	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,3,5-Trimethylbenzene	1.84		1.00	ug/L			03/05/13 17:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 17:34	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 17:34	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:34	1
2-Hexanone	ND		10.0	ug/L			03/05/13 17:34	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 17:34	1
Acetone	ND		50.0	ug/L			03/05/13 17:34	1
Benzene	ND		1.00	ug/L			03/05/13 17:34	1
Bromobenzene	ND		1.00	ug/L			03/05/13 17:34	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 17:34	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 17:34	1
Bromoform	ND		1.00	ug/L			03/05/13 17:34	1
Bromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 17:34	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 17:34	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 17:34	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Chloroethane	ND		1.00	ug/L			03/05/13 17:34	1
Chloroform	ND		1.00	ug/L			03/05/13 17:34	1
Chloromethane	ND		1.00	ug/L			03/05/13 17:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
Dibromomethane	ND		1.00	ug/L			03/05/13 17:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 17:34	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 17:34	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 17:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 17:34	1
Naphthalene	15.1		5.00	ug/L			03/05/13 17:34	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 17:34	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Styrene	ND		1.00	ug/L			03/05/13 17:34	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 17:34	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 17:34	1
Toluene	ND		1.00	ug/L			03/05/13 17:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 17:34	1
Trichloroethene	ND		1.00	ug/L			03/05/13 17:34	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 17:34	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 17:34	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		70 - 130				03/05/13 17:34	1
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130				03/05/13 17:34	1
<i>Dibromofluoromethane (Surr)</i>	98		70 - 130				03/05/13 17:34	1
<i>Toluene-d8 (Surr)</i>	96		70 - 130				03/05/13 17:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,2-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,3-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1,4-Dichlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
1-Methylnaphthalene	5.23		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4,5-Trichlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4,6-Trichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dichlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dimethylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dinitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,4-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2,6-Dinitrotoluene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Chloronaphthalene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Chlorophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Methylnaphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
2-Nitrophenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3,3'-Dichlorobenzidine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3 & 4 Methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
3-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4,6-Dinitro-2-methylphenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Bromophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Chloro-3-methylphenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Chlorophenyl phenyl ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Nitroaniline	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
4-Nitrophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
Acenaphthylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Acenaphthene	10.7		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[a]anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[a]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[b]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[g,h,i]perylene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Benzo[k]fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-chloroethoxy)methane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-chloroethyl)ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Bis(2-ethylhexyl) phthalate	113		20.4	ug/L		03/06/13 14:57	03/08/13 14:34	2
bis (2-chloroisopropyl) ether	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Butyl benzyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Carbazole	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Chrysene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Cresols	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dibenz(a,h)anthracene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dibenzofuran	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Diethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Dimethyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Di-n-butyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Di-n-octyl phthalate	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Fluoranthene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Fluorene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorobutadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachlorocyclopentadiene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Hexachloroethane	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Indeno[1,2,3-cd]pyrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Isophorone	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Naphthalene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Nitrobenzene	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
N-Nitrosodi-n-propylamine	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Pentachlorophenol	ND		25.5	ug/L		03/06/13 14:57	03/07/13 23:44	1
Phenanthrene	ND		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Phenol	ND		10.2	ug/L		03/06/13 14:57	03/07/13 23:44	1
Pyrene	2.65		2.04	ug/L		03/06/13 14:57	03/07/13 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		10 - 120			03/06/13 14:57	03/07/13 23:44	1
2-Fluorobiphenyl (Surr)	76		29 - 120			03/06/13 14:57	03/07/13 23:44	1
2-Fluorophenol (Surr)	37		10 - 120			03/06/13 14:57	03/07/13 23:44	1
Nitrobenzene-d5 (Surr)	68		27 - 120			03/06/13 14:57	03/07/13 23:44	1
Phenol-d5 (Surr)	24		10 - 120			03/06/13 14:57	03/07/13 23:44	1
Terphenyl-d14 (Surr)	87		13 - 120			03/06/13 14:57	03/07/13 23:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/06/13 03:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	93		50 - 150				03/06/13 03:59	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	566		100	ug/L		03/05/13 07:48	03/05/13 18:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	77		50 - 150			03/05/13 07:48	03/05/13 18:51	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	35.2		1.00	mg/L			03/08/13 02:21	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:05	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Iron	0.640		0.100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Manganese	0.953		0.0150	mg/L		03/06/13 14:45	03/07/13 23:05	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:05	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:05	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 08:24	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2,4-Trimethylbenzene	26.9		1.00	ug/L			03/05/13 08:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 08:24	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 08:24	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,3,5-Trimethylbenzene	4.17		1.00	ug/L			03/05/13 08:24	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 08:24	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 08:24	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 08:24	1
2-Hexanone	ND		10.0	ug/L			03/05/13 08:24	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 08:24	1
Acetone	ND		50.0	ug/L			03/05/13 08:24	1
Benzene	9.12		1.00	ug/L			03/05/13 08:24	1
Bromobenzene	ND		1.00	ug/L			03/05/13 08:24	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 08:24	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 08:24	1
Bromoform	ND		1.00	ug/L			03/05/13 08:24	1
Bromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Carbon disulfide	10.2		1.00	ug/L			03/05/13 08:24	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 08:24	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 08:24	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Chloroethane	ND		1.00	ug/L			03/05/13 08:24	1
Chloroform	ND		1.00	ug/L			03/05/13 08:24	1
Chloromethane	ND		1.00	ug/L			03/05/13 08:24	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
Dibromomethane	ND		1.00	ug/L			03/05/13 08:24	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 08:24	1
Ethylbenzene	21.1		1.00	ug/L			03/05/13 08:24	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 08:24	1
Isopropylbenzene	6.69		1.00	ug/L			03/05/13 08:24	1
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 08:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			03/05/13 08:24	1
Naphthalene	671		50.0	ug/L			03/05/13 20:17	10
n-Butylbenzene	2.35		1.00	ug/L			03/05/13 08:24	1
N-Propylbenzene	3.91		1.00	ug/L			03/05/13 08:24	1
p-Isopropyltoluene	2.07		1.00	ug/L			03/05/13 08:24	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 08:24	1
Styrene	ND		1.00	ug/L			03/05/13 08:24	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 08:24	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 08:24	1
Toluene	ND		1.00	ug/L			03/05/13 08:24	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 08:24	1
Trichloroethene	ND		1.00	ug/L			03/05/13 08:24	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 08:24	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 08:24	1
Xylenes, Total	12.2		3.00	ug/L			03/05/13 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/05/13 08:24	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		03/05/13 20:17	10
4-Bromofluorobenzene (Surr)	99		70 - 130		03/05/13 08:24	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/05/13 20:17	10
Dibromofluoromethane (Surr)	95		70 - 130		03/05/13 08:24	1
Dibromofluoromethane (Surr)	98		70 - 130		03/05/13 20:17	10
Toluene-d8 (Surr)	97		70 - 130		03/05/13 08:24	1
Toluene-d8 (Surr)	97		70 - 130		03/05/13 20:17	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,2-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,3-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1,4-Dichlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
1-Methylnaphthalene	340		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
2,4,5-Trichlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4,6-Trichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dichlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dimethylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dinitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,4-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2,6-Dinitrotoluene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Chloronaphthalene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Chlorophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Methylnaphthalene	200		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
2-Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
2-Nitrophenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3,3'-Dichlorobenzidine	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3 & 4 Methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
3-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Bromophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chloro-3-methylphenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chlorophenyl phenyl ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Chloroaniline	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Nitroaniline	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
4-Nitrophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
Acenaphthylene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Acenaphthene	59.1		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[a]anthracene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[a]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[b]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[g,h,i]perylene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Benzo[k]fluoranthene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Anthracene	2.73		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-chloroethoxy)methane	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-chloroethyl)ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Bis(2-ethylhexyl) phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
bis (2-chloroisopropyl) ether	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Butyl benzyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Carbazole	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Chrysene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Cresols	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dibenz(a,h)anthracene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dibenzofuran	14.0		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Diethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Dimethyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Di-n-butyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Di-n-octyl phthalate	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Fluoranthene	2.27		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Fluorene	21.1		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorobutadiene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachlorocyclopentadiene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Hexachloroethane	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Indeno[1,2,3-cd]pyrene	ND		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Isophorone	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Naphthalene	653		20.6	ug/L		03/06/13 14:57	03/08/13 14:55	10
Nitrobenzene	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
N-Nitrosodi-n-propylamine	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Pentachlorophenol	ND		25.8	ug/L		03/06/13 14:57	03/08/13 00:05	1
Phenanthrene	27.8		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Phenol	ND		10.3	ug/L		03/06/13 14:57	03/08/13 00:05	1
Pyrene	3.46		2.06	ug/L		03/06/13 14:57	03/08/13 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 120			03/06/13 14:57	03/08/13 00:05	1
2-Fluorobiphenyl (Surr)	62		29 - 120			03/06/13 14:57	03/08/13 00:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	36		10 - 120	03/06/13 14:57	03/08/13 00:05	1
Nitrobenzene-d5 (Surr)	60		27 - 120	03/06/13 14:57	03/08/13 00:05	1
Phenol-d5 (Surr)	24		10 - 120	03/06/13 14:57	03/08/13 00:05	1
Terphenyl-d14 (Surr)	72		13 - 120	03/06/13 14:57	03/08/13 00:05	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	193		100	ug/L			03/06/13 04:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	88		50 - 150		03/06/13 04:29	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3820		500	ug/L		03/05/13 07:48	03/06/13 14:00	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	92		50 - 150		03/05/13 07:48	03/06/13 14:00	5	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	979		50.0	mg/L			03/06/13 22:31	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0107		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Chromium	0.0152		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 23:09	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Iron	8.95		0.100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Manganese	2.10		0.0150	mg/L		03/06/13 14:45	03/07/13 23:09	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 23:09	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 23:09	1
Vanadium	0.0430		0.0200	mg/L		03/06/13 14:45	03/07/13 23:09	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-62691/7

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 01:11	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 01:11	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 01:11	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 01:11	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 01:11	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:11	1
2-Hexanone	ND		10.0	ug/L			03/05/13 01:11	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 01:11	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 01:11	1
Acetone	ND		50.0	ug/L			03/05/13 01:11	1
Benzene	ND		1.00	ug/L			03/05/13 01:11	1
Bromobenzene	ND		1.00	ug/L			03/05/13 01:11	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 01:11	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 01:11	1
Bromoform	ND		1.00	ug/L			03/05/13 01:11	1
Bromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 01:11	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 01:11	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 01:11	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Chloroethane	ND		1.00	ug/L			03/05/13 01:11	1
Chloroform	ND		1.00	ug/L			03/05/13 01:11	1
Chloromethane	ND		1.00	ug/L			03/05/13 01:11	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
Dibromomethane	ND		1.00	ug/L			03/05/13 01:11	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 01:11	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 01:11	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 01:11	1



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62691/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 01:11	1
Methylene Chloride	ND		5.00	ug/L			03/05/13 01:11	1
Naphthalene	ND		5.00	ug/L			03/05/13 01:11	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 01:11	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Styrene	ND		1.00	ug/L			03/05/13 01:11	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 01:11	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 01:11	1
Toluene	ND		1.00	ug/L			03/05/13 01:11	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 01:11	1
Trichloroethene	ND		1.00	ug/L			03/05/13 01:11	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 01:11	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 01:11	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 01:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3		3/ 5: 5/ 31911	1
4-8roB ortho/rof enbene (Surr)	131		73 - 1/3		3/ 5: 5/ 31911	1
Dif roB ortho/roB ethane (Surr)	13:		73 - 1/3		3/ 5: 5/ 31911	1
Toluene-dz (Surr)	0z		73 - 1/3		3/ 5: 5/ 31911	1

Lab Sample ID: LCS 490-62691/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.15		ug/L		94	74 - 135
1,1,1-Trichloroethane	50.0	45.90		ug/L		92	78 - 135
1,1,2,2-Tetrachloroethane	50.0	46.76		ug/L		94	69 - 131
1,1,2-Trichloroethane	50.0	44.83		ug/L		90	80 - 124
1,1-Dichloroethane	50.0	47.47		ug/L		95	78 - 125
Diisopropyl ether	50.0	43.72		ug/L		87	61 - 142
1,1-Dichloroethene	50.0	51.74		ug/L		103	79 - 124
1,1-Dichloropropene	50.0	44.54		ug/L		89	80 - 122
1,2,3-Trichlorobenzene	50.0	52.21		ug/L		104	62 - 133
1,2,3-Trichloropropane	50.0	48.60		ug/L		97	70 - 131
1,2,4-Trichlorobenzene	50.0	53.35		ug/L		107	63 - 133
1,2,4-Trimethylbenzene	50.0	49.45		ug/L		99	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	46.83		ug/L		94	54 - 125
1,2-Dibromoethane (EDB)	50.0	48.28		ug/L		97	80 - 129
1,2-Dichlorobenzene	50.0	48.52		ug/L		97	80 - 121
1,2-Dichloroethane	50.0	46.45		ug/L		93	77 - 121
1,2-Dichloropropane	50.0	44.69		ug/L		89	75 - 120
1,3,5-Trimethylbenzene	50.0	49.37		ug/L		99	77 - 127
1,3-Dichlorobenzene	50.0	48.81		ug/L		98	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62691/3

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,3-Dichloropropane	50.0	45.91		ug/L		92	80 - 125
1,4-Dichlorobenzene	50.0	48.34		ug/L		97	80 - 120
2,2-Dichloropropane	50.0	41.58		ug/L		83	43 - 161
2-Butanone (MEK)	250	247.9		ug/L		99	62 - 133
2-Chlorotoluene	50.0	48.28		ug/L		97	75 - 126
2-Hexanone	250	248.0		ug/L		99	60 - 142
4-Chlorotoluene	50.0	49.73		ug/L		99	75 - 130
4-Methyl-2-pentanone (MIBK)	250	235.4		ug/L		94	60 - 137
Acetone	250	299.5		ug/L		120	54 - 145
Benzene	50.0	46.69		ug/L		93	80 - 121
Bromobenzene	50.0	49.28		ug/L		99	68 - 130
Bromochloromethane	50.0	45.71		ug/L		91	78 - 129
Bromodichloromethane	50.0	50.00		ug/L		100	75 - 129
Bromoform	50.0	46.93		ug/L		94	46 - 145
Bromomethane	50.0	44.75		ug/L		89	41 - 150
Carbon disulfide	50.0	42.58		ug/L		85	77 - 126
Carbon tetrachloride	50.0	45.73		ug/L		91	64 - 147
Chlorobenzene	50.0	46.59		ug/L		93	80 - 120
Chlorodibromomethane	50.0	48.80		ug/L		98	69 - 133
Chloroethane	50.0	45.45		ug/L		91	72 - 120
Chloroform	50.0	45.07		ug/L		90	73 - 129
Chloromethane	50.0	38.33		ug/L		77	12 - 150
cis-1,2-Dichloroethene	50.0	45.12		ug/L		90	76 - 125
cis-1,3-Dichloropropene	50.0	46.87		ug/L		94	74 - 140
Dibromomethane	50.0	47.22		ug/L		94	71 - 125
Dichlorodifluoromethane	50.0	41.98		ug/L		84	37 - 127
Ethylbenzene	50.0	46.71		ug/L		93	80 - 130
Hexachlorobutadiene	50.0	47.00		ug/L		94	49 - 146
Isopropylbenzene	50.0	46.70		ug/L		93	80 - 141
Methyl tert-butyl ether	50.0	44.84		ug/L		90	72 - 133
Methylene Chloride	50.0	51.26		ug/L		103	79 - 123
Naphthalene	50.0	52.06		ug/L		104	62 - 138
n-Butylbenzene	50.0	51.92		ug/L		104	68 - 132
N-Propylbenzene	50.0	49.40		ug/L		99	75 - 129
p-Isopropyltoluene	50.0	49.54		ug/L		99	75 - 128
sec-Butylbenzene	50.0	50.92		ug/L		102	76 - 128
Styrene	50.0	47.30		ug/L		95	80 - 127
tert-Butylbenzene	50.0	49.35		ug/L		99	76 - 126
Tetrachloroethene	50.0	45.87		ug/L		92	80 - 126
Toluene	50.0	46.74		ug/L		93	80 - 126
trans-1,2-Dichloroethene	50.0	49.55		ug/L		99	79 - 126
trans-1,3-Dichloropropene	50.0	46.22		ug/L		92	63 - 134
Trichloroethene	50.0	45.11		ug/L		90	80 - 123
Trichlorofluoromethane	50.0	44.72		ug/L		89	65 - 124
Vinyl chloride	50.0	44.85		ug/L		90	68 - 120
Xylenes, Total	150	138.0		ug/L		92	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62691/3

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3
4-8roB orfluorof enbene (Surr)	136		73 - 1/3
Dif roB orfluoroB ethane (Surr)	06		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: LCSD 490-62691/4

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.16		ug/L		96	74 - 135	2	16
1,1,1-Trichloroethane	50.0	48.98		ug/L		98	78 - 135	7	17
1,1,1,2-Tetrachloroethane	50.0	47.55		ug/L		95	69 - 131	2	20
1,1,2-Trichloroethane	50.0	45.34		ug/L		91	80 - 124	1	15
1,1-Dichloroethane	50.0	50.54		ug/L		101	78 - 125	6	17
Diisopropyl ether	50.0	45.90		ug/L		92	61 - 142	5	50
1,1-Dichloroethene	50.0	55.57		ug/L		111	79 - 124	7	17
1,1-Dichloropropene	50.0	47.52		ug/L		95	80 - 122	6	17
1,2,3-Trichlorobenzene	50.0	52.80		ug/L		106	62 - 133	1	25
1,2,3-Trichloropropane	50.0	48.65		ug/L		97	70 - 131	0	19
1,2,4-Trichlorobenzene	50.0	54.29		ug/L		109	63 - 133	2	19
1,2,4-Trimethylbenzene	50.0	50.44		ug/L		101	77 - 126	2	16
1,2-Dibromo-3-Chloropropane	50.0	46.50		ug/L		93	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	49.16		ug/L		98	80 - 129	2	15
1,2-Dichlorobenzene	50.0	49.65		ug/L		99	80 - 121	2	15
1,2-Dichloroethane	50.0	44.32		ug/L		89	77 - 121	5	17
1,2-Dichloropropane	50.0	46.48		ug/L		93	75 - 120	4	17
1,3,5-Trimethylbenzene	50.0	50.84		ug/L		102	77 - 127	3	17
1,3-Dichlorobenzene	50.0	50.08		ug/L		100	80 - 122	3	15
1,3-Dichloropropane	50.0	46.47		ug/L		93	80 - 125	1	14
1,4-Dichlorobenzene	50.0	49.37		ug/L		99	80 - 120	2	15
2,2-Dichloropropane	50.0	43.95		ug/L		88	43 - 161	6	18
2-Butanone (MEK)	250	254.2		ug/L		102	62 - 133	3	19
2-Chlorotoluene	50.0	49.79		ug/L		100	75 - 126	3	17
2-Hexanone	250	246.8		ug/L		99	60 - 142	0	15
4-Chlorotoluene	50.0	51.89		ug/L		104	75 - 130	4	18
4-Methyl-2-pentanone (MIBK)	250	235.9		ug/L		94	60 - 137	0	17
Acetone	250	306.1		ug/L		122	54 - 145	2	21
Benzene	50.0	45.46		ug/L		91	80 - 121	3	17
Bromobenzene	50.0	50.28		ug/L		101	68 - 130	2	20
Bromochloromethane	50.0	48.01		ug/L		96	78 - 129	5	17
Bromodichloromethane	50.0	51.84		ug/L		104	75 - 129	4	18
Bromoform	50.0	47.30		ug/L		95	46 - 145	1	16
Bromomethane	50.0	48.76		ug/L		98	41 - 150	9	50
Carbon disulfide	50.0	45.42		ug/L		91	77 - 126	6	21
Carbon tetrachloride	50.0	48.73		ug/L		97	64 - 147	6	19
Chlorobenzene	50.0	48.28		ug/L		97	80 - 120	4	14
Chlorodibromomethane	50.0	49.28		ug/L		99	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-62691/4

Matrix: Water

Analysis Batch: 62691

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	48.71		ug/L		97	72 - 120	7	20	
Chloroform	50.0	47.51		ug/L		95	73 - 129	5	18	
Chloromethane	50.0	40.02		ug/L		80	12 - 150	4	31	
cis-1,2-Dichloroethene	50.0	48.22		ug/L		96	76 - 125	7	17	
cis-1,3-Dichloropropene	50.0	47.83		ug/L		96	74 - 140	2	15	
Dibromomethane	50.0	49.02		ug/L		98	71 - 125	4	16	
Dichlorodifluoromethane	50.0	44.58		ug/L		89	37 - 127	6	18	
Ethylbenzene	50.0	48.16		ug/L		96	80 - 130	3	15	
Hexachlorobutadiene	50.0	48.82		ug/L		98	49 - 146	4	23	
Isopropylbenzene	50.0	48.23		ug/L		96	80 - 141	3	16	
Methyl tert-butyl ether	50.0	46.04		ug/L		92	72 - 133	3	16	
Methylene Chloride	50.0	54.58		ug/L		109	79 - 123	6	17	
Naphthalene	50.0	52.03		ug/L		104	62 - 138	0	26	
n-Butylbenzene	50.0	53.68		ug/L		107	68 - 132	3	18	
N-Propylbenzene	50.0	51.09		ug/L		102	75 - 129	3	17	
p-Isopropyltoluene	50.0	50.90		ug/L		102	75 - 128	3	16	
sec-Butylbenzene	50.0	52.51		ug/L		105	76 - 128	3	16	
Styrene	50.0	48.58		ug/L		97	80 - 127	3	24	
tert-Butylbenzene	50.0	51.13		ug/L		102	76 - 126	4	16	
Tetrachloroethene	50.0	47.80		ug/L		96	80 - 126	4	16	
Toluene	50.0	48.46		ug/L		97	80 - 126	4	15	
trans-1,2-Dichloroethene	50.0	53.23		ug/L		106	79 - 126	7	16	
trans-1,3-Dichloropropene	50.0	46.81		ug/L		94	63 - 134	1	14	
Trichloroethene	50.0	47.51		ug/L		95	80 - 123	5	17	
Trichlorofluoromethane	50.0	47.65		ug/L		95	65 - 124	6	18	
Vinyl chloride	50.0	48.14		ug/L		96	68 - 120	7	17	
Xylenes, Total	150	142.0		ug/L		95	80 - 132	3	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	02		73 - 1/3
4-8roB orthoB of enbene (Surr)	13:		73 - 1/3
Dif roB orthoB ethane (Surr)	00		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: 490-20658-9 MS

Matrix: Water

Analysis Batch: 62691

Client Sample ID: OR-10W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	55.90		ug/L		112	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	57.49		ug/L		115	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	55.00		ug/L		110	56 - 143	
1,1,2-Trichloroethane	ND		50.0	53.06		ug/L		106	74 - 134	
1,1-Dichloroethane	ND		50.0	57.62		ug/L		114	71 - 139	
Diisopropyl ether	ND		50.0	51.87		ug/L		104	10 - 200	
1,1-Dichloroethene	ND		50.0	65.70		ug/L		131	70 - 142	
1,1-Dichloropropene	ND		50.0	56.28		ug/L		113	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	60.50		ug/L		121	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MS

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	55.80		ug/L		112	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	62.95		ug/L		126	60 - 136
1,2,4-Trimethylbenzene	1.32		50.0	58.39		ug/L		114	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	53.93		ug/L		108	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	57.22		ug/L		114	75 - 137
1,2-Dichlorobenzene	ND		50.0	56.16		ug/L		112	79 - 128
1,2-Dichloroethane	ND		50.0	54.92		ug/L		110	64 - 136
1,2-Dichloropropane	ND		50.0	52.61		ug/L		105	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	57.20		ug/L		114	69 - 139
1,3-Dichlorobenzene	ND		50.0	57.23		ug/L		114	77 - 131
1,3-Dichloropropane	ND		50.0	54.77		ug/L		110	72 - 134
1,4-Dichlorobenzene	ND		50.0	56.37		ug/L		113	78 - 126
2,2-Dichloropropane	ND		50.0	55.44		ug/L		111	37 - 175
2-Butanone (MEK)	ND		250	290.3		ug/L		116	50 - 138
2-Chlorotoluene	ND		50.0	56.37		ug/L		113	67 - 138
2-Hexanone	ND		250	325.0		ug/L		130	50 - 150
4-Chlorotoluene	ND		50.0	58.16		ug/L		116	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	311.8		ug/L		125	50 - 147
Acetone	50.8		250	361.0		ug/L		124	45 - 141
Benzene	1.32		50.0	56.88		ug/L		111	75 - 133
Bromobenzene	ND		50.0	57.64		ug/L		115	60 - 138
Bromochloromethane	ND		50.0	54.59		ug/L		109	67 - 139
Bromodichloromethane	ND		50.0	59.81		ug/L		120	70 - 140
Bromoform	ND		50.0	55.70		ug/L		111	42 - 147
Bromomethane	2.79		50.0	56.61		ug/L		108	16 - 163
Carbon disulfide	8.36		50.0	61.49		ug/L		106	48 - 152
Carbon tetrachloride	ND		50.0	58.31		ug/L		117	62 - 164
Chlorobenzene	ND		50.0	55.90		ug/L		112	80 - 129
Chlorodibromomethane	ND		50.0	58.39		ug/L		117	66 - 140
Chloroethane	ND		50.0	52.35		ug/L		105	58 - 137
Chloroform	ND		50.0	53.78		ug/L		108	66 - 138
Chloromethane	3.99		50.0	44.99		ug/L		82	10 - 169
cis-1,2-Dichloroethene	ND		50.0	54.65		ug/L		109	68 - 138
cis-1,3-Dichloropropene	ND		50.0	56.98		ug/L		114	71 - 141
Dibromomethane	ND		50.0	56.00		ug/L		112	58 - 140
Dichlorodifluoromethane	ND		50.0	45.57		ug/L		91	40 - 127
Ethylbenzene	ND		50.0	56.39		ug/L		112	79 - 139
Hexachlorobutadiene	ND		50.0	58.87		ug/L		118	45 - 155
Isopropylbenzene	ND		50.0	56.89		ug/L		113	80 - 153
Methyl tert-butyl ether	ND		50.0	54.79		ug/L		110	66 - 141
Methylene Chloride	14.6		50.0	76.18		ug/L		123	64 - 139
Naphthalene	189		50.0	264.4	E F	ug/L		150	55 - 140
n-Butylbenzene	ND		50.0	62.43		ug/L		125	66 - 141
N-Propylbenzene	ND		50.0	58.12		ug/L		116	69 - 142
p-Isopropyltoluene	ND		50.0	58.53		ug/L		117	71 - 137
sec-Butylbenzene	ND		50.0	60.04		ug/L		120	73 - 138
Styrene	ND		50.0	55.19		ug/L		110	61 - 148
tert-Butylbenzene	ND		50.0	57.80		ug/L		116	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MS

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	57.00		ug/L		114	72 - 145
Toluene	ND		50.0	56.02		ug/L		112	75 - 136
trans-1,2-Dichloroethene	ND		50.0	61.02		ug/L		122	66 - 143
trans-1,3-Dichloropropene	ND		50.0	56.15		ug/L		112	59 - 135
Trichloroethene	ND		50.0	54.92		ug/L		110	73 - 144
Trichlorofluoromethane	ND		50.0	53.59		ug/L		107	58 - 139
Vinyl chloride	ND		50.0	51.18		ug/L		102	56 - 129
Xylenes, Total	ND		150	164.1		ug/L		109	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	131		73 - 1/3
4-Bromofluorobenzene (Surr)	13/		73 - 1/3
Difluorobromobenzene (Surr)	0z		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

Lab Sample ID: 490-20658-9 MSD

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	48.98		ug/L		98	73 - 141	13	16
1,1,1-Trichloroethane	ND		50.0	50.50		ug/L		101	76 - 149	13	17
1,1,1,2-Tetrachloroethane	ND		50.0	48.38		ug/L		97	56 - 143	13	20
1,1,2-Trichloroethane	ND		50.0	46.70		ug/L		93	74 - 134	13	15
1,1-Dichloroethane	ND		50.0	50.83		ug/L		100	71 - 139	13	17
Diisopropyl ether	ND		50.0	46.45		ug/L		93	10 - 200	11	50
1,1-Dichloroethene	ND		50.0	59.57		ug/L		119	70 - 142	10	17
1,1-Dichloropropene	ND		50.0	50.02		ug/L		100	76 - 139	12	17
1,2,3-Trichlorobenzene	ND		50.0	56.76		ug/L		114	55 - 138	6	25
1,2,3-Trichloropropane	ND		50.0	49.74		ug/L		99	53 - 144	11	19
1,2,4-Trichlorobenzene	ND		50.0	57.45		ug/L		115	60 - 136	9	19
1,2,4-Trimethylbenzene	1.32		50.0	52.58		ug/L		103	69 - 136	10	16
1,2-Dibromo-3-Chloropropane	ND		50.0	48.13		ug/L		96	52 - 126	11	24
1,2-Dibromoethane (EDB)	ND		50.0	50.50		ug/L		101	75 - 137	12	15
1,2-Dichlorobenzene	ND		50.0	50.66		ug/L		101	79 - 128	10	15
1,2-Dichloroethane	ND		50.0	48.48		ug/L		97	64 - 136	12	17
1,2-Dichloropropane	ND		50.0	47.00		ug/L		94	67 - 131	11	17
1,3,5-Trimethylbenzene	ND		50.0	51.16		ug/L		102	69 - 139	11	17
1,3-Dichlorobenzene	ND		50.0	51.38		ug/L		103	77 - 131	11	15
1,3-Dichloropropane	ND		50.0	48.39		ug/L		97	72 - 134	12	14
1,4-Dichlorobenzene	ND		50.0	50.92		ug/L		102	78 - 126	10	15
2,2-Dichloropropane	ND		50.0	48.87		ug/L		98	37 - 175	13	18
2-Butanone (MEK)	ND		250	257.3		ug/L		103	50 - 138	12	19
2-Chlorotoluene	ND		50.0	50.25		ug/L		100	67 - 138	11	17
2-Hexanone	ND		250	287.8		ug/L		115	50 - 150	12	15
4-Chlorotoluene	ND		50.0	52.18		ug/L		104	69 - 138	11	18
4-Methyl-2-pentanone (MIBK)	ND		250	277.2		ug/L		111	50 - 147	12	17
Acetone	50.8		250	328.5		ug/L		111	45 - 141	9	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20658-9 MSD

Client Sample ID: OR-10W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62691

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	1.32		50.0	50.99		ug/L		99	75 - 133	11	17
Bromobenzene	ND		50.0	51.16		ug/L		102	60 - 138	12	20
Bromochloromethane	ND		50.0	49.52		ug/L		99	67 - 139	10	17
Bromodichloromethane	ND		50.0	52.71		ug/L		105	70 - 140	13	18
Bromoform	ND		50.0	49.33		ug/L		99	42 - 147	12	16
Bromomethane	2.79		50.0	49.71		ug/L		94	16 - 163	13	50
Carbon disulfide	8.36		50.0	56.03		ug/L		95	48 - 152	9	21
Carbon tetrachloride	ND		50.0	51.50		ug/L		103	62 - 164	12	19
Chlorobenzene	ND		50.0	49.65		ug/L		99	80 - 129	12	14
Chlorodibromomethane	ND		50.0	51.37		ug/L		103	66 - 140	13	15
Chloroethane	ND		50.0	47.15		ug/L		94	58 - 137	10	20
Chloroform	ND		50.0	47.30		ug/L		95	66 - 138	13	18
Chloromethane	3.99		50.0	41.50		ug/L		75	10 - 169	8	31
cis-1,2-Dichloroethene	ND		50.0	48.44		ug/L		97	68 - 138	12	17
cis-1,3-Dichloropropene	ND		50.0	49.93		ug/L		100	71 - 141	13	15
Dibromomethane	ND		50.0	49.96		ug/L		100	58 - 140	11	16
Dichlorodifluoromethane	ND		50.0	41.04		ug/L		82	40 - 127	10	18
Ethylbenzene	ND		50.0	50.33		ug/L		100	79 - 139	11	15
Hexachlorobutadiene	ND		50.0	53.23		ug/L		106	45 - 155	10	23
Isopropylbenzene	ND		50.0	50.84		ug/L		101	80 - 153	11	16
Methyl tert-butyl ether	ND		50.0	48.74		ug/L		97	66 - 141	12	16
Methylene Chloride	14.6		50.0	69.20		ug/L		109	64 - 139	10	17
Naphthalene	189		50.0	241.1	E	ug/L		103	55 - 140	9	26
n-Butylbenzene	ND		50.0	56.96		ug/L		114	66 - 141	9	18
N-Propylbenzene	ND		50.0	52.27		ug/L		105	69 - 142	11	17
p-Isopropyltoluene	ND		50.0	53.15		ug/L		106	71 - 137	10	16
sec-Butylbenzene	ND		50.0	54.30		ug/L		109	73 - 138	10	16
Styrene	ND		50.0	47.78		ug/L		96	61 - 148	14	24
tert-Butylbenzene	ND		50.0	52.19		ug/L		104	70 - 138	10	16
Tetrachloroethene	ND		50.0	50.25		ug/L		100	72 - 145	13	16
Toluene	ND		50.0	49.66		ug/L		99	75 - 136	12	15
trans-1,2-Dichloroethene	ND		50.0	54.04		ug/L		108	66 - 143	12	16
trans-1,3-Dichloropropene	ND		50.0	49.31		ug/L		99	59 - 135	13	14
Trichloroethene	ND		50.0	49.22		ug/L		98	73 - 144	11	17
Trichlorofluoromethane	ND		50.0	48.31		ug/L		97	58 - 139	10	18
Vinyl chloride	ND		50.0	45.55		ug/L		91	56 - 129	12	17
Xylenes, Total	ND		150	147.2		ug/L		98	74 - 141	11	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	04		73 - 1/3
4-BroB orthoB of enbene (Surr)	13/		73 - 1/3
Dif roB orthoB ethane (Surr)	07		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62739/7

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,1-Dichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
Diisopropyl ether	ND		2.00	ug/L			03/05/13 12:35	1
1,1-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
1,1-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,3-Trichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			03/05/13 12:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichloroethane	ND		1.00	ug/L			03/05/13 12:35	1
1,2-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
1,3-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
2,2-Dichloropropane	ND		1.00	ug/L			03/05/13 12:35	1
2-Butanone (MEK)	ND		50.0	ug/L			03/05/13 12:35	1
2-Chlorotoluene	ND		1.00	ug/L			03/05/13 12:35	1
2-Hexanone	ND		10.0	ug/L			03/05/13 12:35	1
4-Chlorotoluene	ND		1.00	ug/L			03/05/13 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			03/05/13 12:35	1
Acetone	ND		50.0	ug/L			03/05/13 12:35	1
Benzene	ND		1.00	ug/L			03/05/13 12:35	1
Bromobenzene	ND		1.00	ug/L			03/05/13 12:35	1
Bromochloromethane	ND		1.00	ug/L			03/05/13 12:35	1
Bromodichloromethane	ND		1.00	ug/L			03/05/13 12:35	1
Bromoform	ND		1.00	ug/L			03/05/13 12:35	1
Bromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Carbon disulfide	ND		1.00	ug/L			03/05/13 12:35	1
Carbon tetrachloride	ND		1.00	ug/L			03/05/13 12:35	1
Chlorobenzene	ND		1.00	ug/L			03/05/13 12:35	1
Chlorodibromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Chloroethane	ND		1.00	ug/L			03/05/13 12:35	1
Chloroform	ND		1.00	ug/L			03/05/13 12:35	1
Chloromethane	ND		1.00	ug/L			03/05/13 12:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
Dibromomethane	ND		1.00	ug/L			03/05/13 12:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			03/05/13 12:35	1
Ethylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Hexachlorobutadiene	ND		2.00	ug/L			03/05/13 12:35	1
Isopropylbenzene	ND		1.00	ug/L			03/05/13 12:35	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-62739/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			03/05/13 12:35	1
Methylene Chloride	ND		5.00	ug/L			03/05/13 12:35	1
Naphthalene	ND		5.00	ug/L			03/05/13 12:35	1
n-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
N-Propylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
p-Isopropyltoluene	ND		1.00	ug/L			03/05/13 12:35	1
sec-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Styrene	ND		1.00	ug/L			03/05/13 12:35	1
tert-Butylbenzene	ND		1.00	ug/L			03/05/13 12:35	1
Tetrachloroethene	ND		1.00	ug/L			03/05/13 12:35	1
Toluene	ND		1.00	ug/L			03/05/13 12:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			03/05/13 12:35	1
Trichloroethene	ND		1.00	ug/L			03/05/13 12:35	1
Trichlorofluoromethane	ND		1.00	ug/L			03/05/13 12:35	1
Vinyl chloride	ND		1.00	ug/L			03/05/13 12:35	1
Xylenes, Total	ND		3.00	ug/L			03/05/13 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	zz		73 - 1/3		3/ 5/ 5/ 129 :	1
4-8roB ortho/of enbene (Surr)	133		73 - 1/3		3/ 5/ 5/ 129 :	1
Dif roB ortho/orB ethane (Surr)	0:		73 - 1/3		3/ 5/ 5/ 129 :	1
Toluene-dz (Surr)	0z		73 - 1/3		3/ 5/ 5/ 129 :	1

Lab Sample ID: LCS 490-62739/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	47.05		ug/L		94	74 - 135
1,1,1-Trichloroethane	50.0	47.99		ug/L		96	78 - 135
1,1,2,2-Tetrachloroethane	50.0	45.55		ug/L		91	69 - 131
1,1,2-Trichloroethane	50.0	44.10		ug/L		88	80 - 124
1,1-Dichloroethane	50.0	48.86		ug/L		98	78 - 125
Diisopropyl ether	50.0	44.01		ug/L		88	61 - 142
1,1-Dichloroethene	50.0	56.21		ug/L		112	79 - 124
1,1-Dichloropropene	50.0	47.40		ug/L		95	80 - 122
1,2,3-Trichlorobenzene	50.0	51.52		ug/L		103	62 - 133
1,2,3-Trichloropropane	50.0	46.40		ug/L		93	70 - 131
1,2,4-Trichlorobenzene	50.0	53.43		ug/L		107	63 - 133
1,2,4-Trimethylbenzene	50.0	50.78		ug/L		102	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	43.79		ug/L		88	54 - 125
1,2-Dibromoethane (EDB)	50.0	47.11		ug/L		94	80 - 129
1,2-Dichlorobenzene	50.0	49.03		ug/L		98	80 - 121
1,2-Dichloroethane	50.0	42.43		ug/L		85	77 - 121
1,2-Dichloropropane	50.0	45.14		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	50.71		ug/L		101	77 - 127
1,3-Dichlorobenzene	50.0	49.94		ug/L		100	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62739/3

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	45.23		ug/L		90	80 - 125
1,4-Dichlorobenzene	50.0	49.21		ug/L		98	80 - 120
2,2-Dichloropropane	50.0	44.75		ug/L		90	43 - 161
2-Butanone (MEK)	250	236.6		ug/L		95	62 - 133
2-Chlorotoluene	50.0	49.88		ug/L		100	75 - 126
2-Hexanone	250	235.6		ug/L		94	60 - 142
4-Chlorotoluene	50.0	51.64		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	223.9		ug/L		90	60 - 137
Acetone	250	287.9		ug/L		115	54 - 145
Benzene	50.0	44.55		ug/L		89	80 - 121
Bromobenzene	50.0	49.48		ug/L		99	68 - 130
Bromochloromethane	50.0	47.14		ug/L		94	78 - 129
Bromodichloromethane	50.0	50.34		ug/L		101	75 - 129
Bromoform	50.0	46.13		ug/L		92	46 - 145
Bromomethane	50.0	47.96		ug/L		96	41 - 150
Carbon disulfide	50.0	45.56		ug/L		91	77 - 126
Carbon tetrachloride	50.0	48.48		ug/L		97	64 - 147
Chlorobenzene	50.0	48.21		ug/L		96	80 - 120
Chlorodibromomethane	50.0	48.66		ug/L		97	69 - 133
Chloroethane	50.0	48.67		ug/L		97	72 - 120
Chloroform	50.0	46.10		ug/L		92	73 - 129
Chloromethane	50.0	41.23		ug/L		82	12 - 150
cis-1,2-Dichloroethene	50.0	46.71		ug/L		93	76 - 125
cis-1,3-Dichloropropene	50.0	47.70		ug/L		95	74 - 140
Dibromomethane	50.0	46.25		ug/L		92	71 - 125
Dichlorodifluoromethane	50.0	44.61		ug/L		89	37 - 127
Ethylbenzene	50.0	48.68		ug/L		97	80 - 130
Hexachlorobutadiene	50.0	48.52		ug/L		97	49 - 146
Isopropylbenzene	50.0	48.93		ug/L		98	80 - 141
Methyl tert-butyl ether	50.0	43.91		ug/L		88	72 - 133
Methylene Chloride	50.0	53.40		ug/L		107	79 - 123
Naphthalene	50.0	51.80		ug/L		104	62 - 138
n-Butylbenzene	50.0	52.66		ug/L		105	68 - 132
N-Propylbenzene	50.0	51.29		ug/L		103	75 - 129
p-Isopropyltoluene	50.0	50.89		ug/L		102	75 - 128
sec-Butylbenzene	50.0	52.20		ug/L		104	76 - 128
Styrene	50.0	49.03		ug/L		98	80 - 127
tert-Butylbenzene	50.0	50.86		ug/L		102	76 - 126
Tetrachloroethene	50.0	48.06		ug/L		96	80 - 126
Toluene	50.0	48.55		ug/L		97	80 - 126
trans-1,2-Dichloroethene	50.0	51.91		ug/L		104	79 - 126
trans-1,3-Dichloropropene	50.0	46.21		ug/L		92	63 - 134
Trichloroethene	50.0	47.37		ug/L		95	80 - 123
Trichlorofluoromethane	50.0	48.41		ug/L		97	65 - 124
Vinyl chloride	50.0	47.94		ug/L		96	68 - 120
Xylenes, Total	150	144.2		ug/L		96	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-62739/3

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	zz		73 - 1/3
4-8roB orfluorof enbene (Surr)	13:		73 - 1/3
Dif roB orfluoroB ethane (Surr)	0:		73 - 1/3
Toluene-dz (Surr)	00		73 - 1/3

Lab Sample ID: LCSD 490-62739/4

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
1,1,1,2-Tetrachloroethane	50.0	48.61		ug/L		97	74 - 135	3	16	
1,1,1-Trichloroethane	50.0	48.87		ug/L		98	78 - 135	2	17	
1,1,1,2-Tetrachloroethane	50.0	46.90		ug/L		94	69 - 131	3	20	
1,1,2-Trichloroethane	50.0	45.63		ug/L		91	80 - 124	3	15	
1,1-Dichloroethane	50.0	50.45		ug/L		101	78 - 125	3	17	
Diisopropyl ether	50.0	44.80		ug/L		90	61 - 142	2	50	
1,1-Dichloroethene	50.0	55.64		ug/L		111	79 - 124	1	17	
1,1-Dichloropropene	50.0	47.31		ug/L		95	80 - 122	0	17	
1,2,3-Trichlorobenzene	50.0	52.95		ug/L		106	62 - 133	3	25	
1,2,3-Trichloropropane	50.0	48.02		ug/L		96	70 - 131	3	19	
1,2,4-Trichlorobenzene	50.0	54.24		ug/L		108	63 - 133	2	19	
1,2,4-Trimethylbenzene	50.0	50.57		ug/L		101	77 - 126	0	16	
1,2-Dibromo-3-Chloropropane	50.0	45.29		ug/L		91	54 - 125	3	24	
1,2-Dibromoethane (EDB)	50.0	49.18		ug/L		98	80 - 129	4	15	
1,2-Dichlorobenzene	50.0	49.80		ug/L		100	80 - 121	2	15	
1,2-Dichloroethane	50.0	43.90		ug/L		88	77 - 121	3	17	
1,2-Dichloropropane	50.0	45.92		ug/L		92	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	51.16		ug/L		102	77 - 127	1	17	
1,3-Dichlorobenzene	50.0	50.40		ug/L		101	80 - 122	1	15	
1,3-Dichloropropane	50.0	46.64		ug/L		93	80 - 125	3	14	
1,4-Dichlorobenzene	50.0	49.59		ug/L		99	80 - 120	1	15	
2,2-Dichloropropane	50.0	45.19		ug/L		90	43 - 161	1	18	
2-Butanone (MEK)	250	249.7		ug/L		100	62 - 133	5	19	
2-Chlorotoluene	50.0	50.17		ug/L		100	75 - 126	1	17	
2-Hexanone	250	249.3		ug/L		100	60 - 142	6	15	
4-Chlorotoluene	50.0	51.59		ug/L		103	75 - 130	0	18	
4-Methyl-2-pentanone (MIBK)	250	235.7		ug/L		94	60 - 137	5	17	
Acetone	250	311.2		ug/L		124	54 - 145	8	21	
Benzene	50.0	45.10		ug/L		90	80 - 121	1	17	
Bromobenzene	50.0	50.31		ug/L		101	68 - 130	2	20	
Bromochloromethane	50.0	47.03		ug/L		94	78 - 129	0	17	
Bromodichloromethane	50.0	51.88		ug/L		104	75 - 129	3	18	
Bromoform	50.0	47.74		ug/L		95	46 - 145	3	16	
Bromomethane	50.0	49.74		ug/L		99	41 - 150	4	50	
Carbon disulfide	50.0	45.59		ug/L		91	77 - 126	0	21	
Carbon tetrachloride	50.0	48.85		ug/L		98	64 - 147	1	19	
Chlorobenzene	50.0	48.71		ug/L		97	80 - 120	1	14	
Chlorodibromomethane	50.0	49.91		ug/L		100	69 - 133	3	15	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-62739/4

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	48.69		ug/L		97	72 - 120	0	20	
Chloroform	50.0	47.19		ug/L		94	73 - 129	2	18	
Chloromethane	50.0	40.21		ug/L		80	12 - 150	3	31	
cis-1,2-Dichloroethene	50.0	47.64		ug/L		95	76 - 125	2	17	
cis-1,3-Dichloropropene	50.0	48.88		ug/L		98	74 - 140	2	15	
Dibromomethane	50.0	48.63		ug/L		97	71 - 125	5	16	
Dichlorodifluoromethane	50.0	44.85		ug/L		90	37 - 127	1	18	
Ethylbenzene	50.0	48.69		ug/L		97	80 - 130	0	15	
Hexachlorobutadiene	50.0	48.73		ug/L		97	49 - 146	0	23	
Isopropylbenzene	50.0	48.62		ug/L		97	80 - 141	1	16	
Methyl tert-butyl ether	50.0	45.42		ug/L		91	72 - 133	3	16	
Methylene Chloride	50.0	54.14		ug/L		108	79 - 123	1	17	
Naphthalene	50.0	53.10		ug/L		106	62 - 138	2	26	
n-Butylbenzene	50.0	53.41		ug/L		107	68 - 132	1	18	
N-Propylbenzene	50.0	51.02		ug/L		102	75 - 129	1	17	
p-Isopropyltoluene	50.0	51.07		ug/L		102	75 - 128	0	16	
sec-Butylbenzene	50.0	52.36		ug/L		105	76 - 128	0	16	
Styrene	50.0	49.17		ug/L		98	80 - 127	0	24	
tert-Butylbenzene	50.0	51.08		ug/L		102	76 - 126	0	16	
Tetrachloroethene	50.0	48.28		ug/L		97	80 - 126	0	16	
Toluene	50.0	49.04		ug/L		98	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	52.88		ug/L		106	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	47.59		ug/L		95	63 - 134	3	14	
Trichloroethene	50.0	47.68		ug/L		95	80 - 123	1	17	
Trichlorofluoromethane	50.0	47.97		ug/L		96	65 - 124	1	18	
Vinyl chloride	50.0	48.80		ug/L		98	68 - 120	2	17	
Xylenes, Total	150	143.6		ug/L		96	80 - 132	0	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	01		73 - 1/3
4-8roB orthoB ethene (Surr)	13:		73 - 1/3
Dif roB orthoB ethane (Surr)	0z		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

Lab Sample ID: 490-20643-B-1 MS

Matrix: Water

Analysis Batch: 62739

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	47.99		ug/L		96	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	48.31		ug/L		97	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	44.80		ug/L		90	56 - 143	
1,1,2-Trichloroethane	ND		50.0	44.25		ug/L		88	74 - 134	
1,1-Dichloroethane	ND		50.0	48.08		ug/L		96	71 - 139	
Diisopropyl ether	ND		50.0	41.09		ug/L		82	10 - 200	
1,1-Dichloroethene	ND		50.0	56.95		ug/L		114	70 - 142	
1,1-Dichloropropene	ND		50.0	47.21		ug/L		94	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	49.37		ug/L		99	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	44.51		ug/L		89	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	51.47		ug/L		103	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	49.29		ug/L		99	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	42.16		ug/L		84	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	47.20		ug/L		94	75 - 137
1,2-Dichlorobenzene	ND		50.0	47.88		ug/L		96	79 - 128
1,2-Dichloroethane	ND		50.0	46.24		ug/L		92	64 - 136
1,2-Dichloropropane	ND		50.0	45.71		ug/L		91	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	49.70		ug/L		99	69 - 139
1,3-Dichlorobenzene	ND		50.0	49.04		ug/L		98	77 - 131
1,3-Dichloropropane	ND		50.0	45.39		ug/L		91	72 - 134
1,4-Dichlorobenzene	ND		50.0	48.10		ug/L		96	78 - 126
2,2-Dichloropropane	ND		50.0	43.46		ug/L		87	37 - 175
2-Butanone (MEK)	ND		250	228.3		ug/L		91	50 - 138
2-Chlorotoluene	ND		50.0	48.43		ug/L		97	67 - 138
2-Hexanone	ND		250	226.2		ug/L		90	50 - 150
4-Chlorotoluene	ND		50.0	49.86		ug/L		100	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	219.9		ug/L		88	50 - 147
Acetone	ND		250	246.7		ug/L		99	45 - 141
Benzene	ND		50.0	48.89		ug/L		98	75 - 133
Bromobenzene	ND		50.0	47.98		ug/L		96	60 - 138
Bromochloromethane	ND		50.0	46.98		ug/L		94	67 - 139
Bromodichloromethane	ND		50.0	51.24		ug/L		102	70 - 140
Bromoform	ND		50.0	46.12		ug/L		92	42 - 147
Bromomethane	ND		50.0	43.64		ug/L		87	16 - 163
Carbon disulfide	ND		50.0	44.19		ug/L		88	48 - 152
Carbon tetrachloride	ND		50.0	49.96		ug/L		100	62 - 164
Chlorobenzene	ND		50.0	48.61		ug/L		97	80 - 129
Chlorodibromomethane	ND		50.0	49.24		ug/L		98	66 - 140
Chloroethane	ND		50.0	45.16		ug/L		90	58 - 137
Chloroform	ND		50.0	46.19		ug/L		92	66 - 138
Chloromethane	ND		50.0	37.03		ug/L		74	10 - 169
cis-1,2-Dichloroethene	ND		50.0	45.57		ug/L		91	68 - 138
cis-1,3-Dichloropropene	ND		50.0	47.10		ug/L		94	71 - 141
Dibromomethane	ND		50.0	47.55		ug/L		95	58 - 140
Dichlorodifluoromethane	ND		50.0	40.72		ug/L		81	40 - 127
Ethylbenzene	ND		50.0	49.05		ug/L		98	79 - 139
Hexachlorobutadiene	ND		50.0	47.88		ug/L		96	45 - 155
Isopropylbenzene	ND		50.0	49.23		ug/L		98	80 - 153
Methyl tert-butyl ether	ND		50.0	42.64		ug/L		85	66 - 141
Methylene Chloride	ND		50.0	52.09		ug/L		104	64 - 139
Naphthalene	ND		50.0	50.76		ug/L		100	55 - 140
n-Butylbenzene	ND		50.0	52.25		ug/L		105	66 - 141
N-Propylbenzene	ND		50.0	50.40		ug/L		101	69 - 142
p-Isopropyltoluene	ND		50.0	49.89		ug/L		100	71 - 137
sec-Butylbenzene	ND		50.0	51.76		ug/L		104	73 - 138
Styrene	ND		50.0	49.18		ug/L		98	61 - 148
tert-Butylbenzene	ND		50.0	50.61		ug/L		101	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	49.21		ug/L		98	72 - 145
Toluene	ND		50.0	48.76		ug/L		98	75 - 136
trans-1,2-Dichloroethene	ND		50.0	50.60		ug/L		101	66 - 143
trans-1,3-Dichloropropene	ND		50.0	45.67		ug/L		91	59 - 135
Trichloroethene	ND		50.0	48.17		ug/L		96	73 - 144
Trichlorofluoromethane	ND		50.0	47.63		ug/L		95	58 - 139
Vinyl chloride	ND		50.0	43.83		ug/L		88	56 - 129
Xylenes, Total	ND		150	144.1		ug/L		96	74 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	06		73 - 1/3
4-Bromobenzene (Surr)	133		73 - 1/3
Dibromobenzene (Surr)	04		73 - 1/3
Toluene-dz (Surr)	07		73 - 1/3

Lab Sample ID: 490-20643-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	48.17		ug/L		96	73 - 141	0	16
1,1,1-Trichloroethane	ND		50.0	54.38		ug/L		109	76 - 149	12	17
1,1,1,2-Tetrachloroethane	ND		50.0	45.21		ug/L		90	56 - 143	1	20
1,1,2-Trichloroethane	ND		50.0	44.48		ug/L		89	74 - 134	1	15
1,1-Dichloroethane	ND		50.0	48.34		ug/L		97	71 - 139	1	17
Diisopropyl ether	ND		50.0	41.49		ug/L		83	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	56.56		ug/L		113	70 - 142	1	17
1,1-Dichloropropene	ND		50.0	54.05		ug/L		108	76 - 139	14	17
1,2,3-Trichlorobenzene	ND		50.0	52.12		ug/L		104	55 - 138	5	25
1,2,3-Trichloropropane	ND		50.0	46.38		ug/L		93	53 - 144	4	19
1,2,4-Trichlorobenzene	ND		50.0	54.05		ug/L		108	60 - 136	5	19
1,2,4-Trimethylbenzene	ND		50.0	50.79		ug/L		102	69 - 136	3	16
1,2-Dibromo-3-Chloropropane	ND		50.0	42.14		ug/L		84	52 - 126	0	24
1,2-Dibromoethane (EDB)	ND		50.0	47.58		ug/L		95	75 - 137	1	15
1,2-Dichlorobenzene	ND		50.0	49.34		ug/L		99	79 - 128	3	15
1,2-Dichloroethane	ND		50.0	46.93		ug/L		94	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	45.83		ug/L		92	67 - 131	0	17
1,3,5-Trimethylbenzene	ND		50.0	51.21		ug/L		102	69 - 139	3	17
1,3-Dichlorobenzene	ND		50.0	50.52		ug/L		101	77 - 131	3	15
1,3-Dichloropropane	ND		50.0	45.60		ug/L		91	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	50.09		ug/L		100	78 - 126	4	15
2,2-Dichloropropane	ND		50.0	43.74		ug/L		87	37 - 175	1	18
2-Butanone (MEK)	ND		250	223.4		ug/L		89	50 - 138	2	19
2-Chlorotoluene	ND		50.0	49.96		ug/L		100	67 - 138	3	17
2-Hexanone	ND		250	224.1		ug/L		90	50 - 150	1	15
4-Chlorotoluene	ND		50.0	51.86		ug/L		104	69 - 138	4	18
4-Methyl-2-pentanone (MIBK)	ND		250	218.7		ug/L		87	50 - 147	1	17
Acetone	ND		250	245.7		ug/L		98	45 - 141	0	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-20643-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 62739

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	49.93		ug/L		100	75 - 133	2	17
Bromobenzene	ND		50.0	49.81		ug/L		100	60 - 138	4	20
Bromochloromethane	ND		50.0	47.08		ug/L		94	67 - 139	0	17
Bromodichloromethane	ND		50.0	51.59		ug/L		103	70 - 140	1	18
Bromoform	ND		50.0	46.21		ug/L		92	42 - 147	0	16
Bromomethane	ND		50.0	44.71		ug/L		89	16 - 163	2	50
Carbon disulfide	ND		50.0	44.92		ug/L		90	48 - 152	2	21
Carbon tetrachloride	ND		50.0	56.59		ug/L		113	62 - 164	12	19
Chlorobenzene	ND		50.0	49.26		ug/L		99	80 - 129	1	14
Chlorodibromomethane	ND		50.0	49.05		ug/L		98	66 - 140	0	15
Chloroethane	ND		50.0	44.48		ug/L		89	58 - 137	2	20
Chloroform	ND		50.0	46.18		ug/L		92	66 - 138	0	18
Chloromethane	ND		50.0	37.33		ug/L		75	10 - 169	1	31
cis-1,2-Dichloroethene	ND		50.0	45.95		ug/L		92	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	47.16		ug/L		94	71 - 141	0	15
Dibromomethane	ND		50.0	47.74		ug/L		95	58 - 140	0	16
Dichlorodifluoromethane	ND		50.0	40.44		ug/L		81	40 - 127	1	18
Ethylbenzene	ND		50.0	49.68		ug/L		99	79 - 139	1	15
Hexachlorobutadiene	ND		50.0	50.21		ug/L		100	45 - 155	5	23
Isopropylbenzene	ND		50.0	50.22		ug/L		100	80 - 153	2	16
Methyl tert-butyl ether	ND		50.0	42.63		ug/L		85	66 - 141	0	16
Methylene Chloride	ND		50.0	52.18		ug/L		104	64 - 139	0	17
Naphthalene	ND		50.0	50.49		ug/L		100	55 - 140	1	26
n-Butylbenzene	ND		50.0	53.99		ug/L		108	66 - 141	3	18
N-Propylbenzene	ND		50.0	51.92		ug/L		104	69 - 142	3	17
p-Isopropyltoluene	ND		50.0	51.78		ug/L		104	71 - 137	4	16
sec-Butylbenzene	ND		50.0	53.36		ug/L		107	73 - 138	3	16
Styrene	ND		50.0	49.43		ug/L		99	61 - 148	1	24
tert-Butylbenzene	ND		50.0	52.41		ug/L		105	70 - 138	4	16
Tetrachloroethene	ND		50.0	49.65		ug/L		99	72 - 145	1	16
Toluene	ND		50.0	49.51		ug/L		99	75 - 136	2	15
trans-1,2-Dichloroethene	ND		50.0	50.98		ug/L		102	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	45.46		ug/L		91	59 - 135	0	14
Trichloroethene	ND		50.0	48.47		ug/L		97	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	47.54		ug/L		95	58 - 139	0	18
Vinyl chloride	ND		50.0	43.79		ug/L		88	56 - 129	0	17
Xylenes, Total	ND		150	146.2		ug/L		97	74 - 141	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	07		73 - 1/3
4-BroB orfluoroF enbene (Surr)	13/		73 - 1/3
Dif roB orfluoroB ethane (Surr)	13:		73 - 1/3
Toluene-dz (Surr)	0z		73 - 1/3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-63231/1-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,2-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,3-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1,4-Dichlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
1-Methylnaphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dichlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dimethylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dinitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,4-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2,6-Dinitrotoluene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Chloronaphthalene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Chlorophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Methylnaphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
2-Nitrophenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3 & 4 Methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
3-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Chloroaniline	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Nitroaniline	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
4-Nitrophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Acenaphthylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Acenaphthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[a]anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[a]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Butyl benzyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Carbazole	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Chrysene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Cresols	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dibenzofuran	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Diethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Dimethyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-63231/1-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63231

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Di-n-butyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Di-n-octyl phthalate	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Fluoranthene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Fluorene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorobutadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Hexachloroethane	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Isophorone	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Naphthalene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Nitrobenzene	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Pentachlorophenol	ND		25.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Phenanthrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1
Phenol	ND		10.0	ug/L		03/06/13 14:57	03/07/13 15:38	1
Pyrene	ND		2.00	ug/L		03/06/13 14:57	03/07/13 15:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Trif roB ophenol (Surr)	03		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
2-Fluorof iphenyl (Surr)	7/		20 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
2-Fluorophenol (Surr)	: 7		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Nitrof enbene-d: (Surr)	77		27 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Phenol-d: (Surr)	/ :		13 - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1
Terphenyl-d14 (Surr)	133		1/ - 123	3/ 565/ 149 7	3/ 575/ 1: 9 z	1

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
1,2,4-Trichlorobenzene	50.0	39.25		ug/L		79	30 - 120
1,2-Dichlorobenzene	50.0	40.16		ug/L		80	32 - 120
1,3-Dichlorobenzene	50.0	39.36		ug/L		79	32 - 120
1,4-Dichlorobenzene	50.0	37.92		ug/L		76	31 - 120
1-Methylnaphthalene	50.0	43.96		ug/L		88	36 - 120
2,4,5-Trichlorophenol	50.0	54.61		ug/L		109	40 - 129
2,4,6-Trichlorophenol	50.0	54.01		ug/L		108	39 - 135
2,4-Dichlorophenol	50.0	53.57		ug/L		107	38 - 120
2,4-Dimethylphenol	50.0	59.70		ug/L		119	21 - 126
2,4-Dinitrophenol	50.0	52.63		ug/L		105	20 - 150
2,4-Dinitrotoluene	50.0	56.32		ug/L		113	46 - 132
2,6-Dinitrotoluene	50.0	54.43		ug/L		109	54 - 128
2-Chloronaphthalene	50.0	47.02		ug/L		94	39 - 120
2-Chlorophenol	50.0	51.39		ug/L		103	40 - 120
2-Methylnaphthalene	50.0	44.34		ug/L		89	31 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
2-Methylphenol	50.0	50.27		ug/L		101	38 - 120
2-Nitroaniline	50.0	59.30		ug/L		119	46 - 131
2-Nitrophenol	50.0	54.95		ug/L		110	32 - 120
3,3'-Dichlorobenzidine	50.0	53.13		ug/L		106	46 - 129
3 & 4 Methylphenol	50.0	46.11		ug/L		92	33 - 120
3-Nitroaniline	50.0	54.76		ug/L		110	54 - 121
4,6-Dinitro-2-methylphenol	50.0	48.93		ug/L		98	19 - 150
4-Bromophenyl phenyl ether	50.0	47.25		ug/L		94	47 - 127
4-Chloro-3-methylphenol	50.0	54.95		ug/L		110	44 - 120
4-Chlorophenyl phenyl ether	50.0	52.67		ug/L		105	50 - 120
4-Chloroaniline	50.0	49.90		ug/L		100	44 - 120
4-Nitroaniline	50.0	53.50		ug/L		107	55 - 123
4-Nitrophenol	50.0	28.66		ug/L		57	10 - 120
Acenaphthylene	50.0	49.07		ug/L		98	48 - 120
Acenaphthene	50.0	45.62		ug/L		91	46 - 120
Benzo[a]anthracene	50.0	47.56		ug/L		95	57 - 120
Benzo[a]pyrene	50.0	49.56		ug/L		99	57 - 124
Benzo[b]fluoranthene	50.0	47.77		ug/L		96	51 - 125
Benzo[g,h,i]perylene	50.0	48.99		ug/L		98	51 - 123
Benzo[k]fluoranthene	50.0	52.82		ug/L		106	51 - 120
Anthracene	50.0	43.33		ug/L		87	58 - 130
Bis(2-chloroethoxy)methane	50.0	50.76		ug/L		102	44 - 120
Bis(2-chloroethyl)ether	50.0	48.84		ug/L		98	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	56.32		ug/L		113	47 - 138
bis (2-chloroisopropyl) ether	50.0	59.60		ug/L		119	44 - 120
Butyl benzyl phthalate	50.0	56.83		ug/L		114	51 - 146
Carbazole	50.0	46.78		ug/L		94	54 - 123
Chrysene	50.0	48.96		ug/L		98	55 - 120
Cresols	100	96.38		ug/L		96	33 - 120
Dibenz(a,h)anthracene	50.0	48.61		ug/L		97	50 - 125
Dibenzofuran	50.0	54.52		ug/L		109	50 - 120
Diethyl phthalate	50.0	53.76		ug/L		108	54 - 128
Dimethyl phthalate	50.0	53.53		ug/L		107	53 - 127
Di-n-butyl phthalate	50.0	47.85		ug/L		96	54 - 140
Di-n-octyl phthalate	50.0	60.02		ug/L		120	50 - 142
Fluoranthene	50.0	42.59		ug/L		85	56 - 120
Fluorene	50.0	47.63		ug/L		95	52 - 120
Hexachlorobenzene	50.0	49.26		ug/L		99	48 - 131
Hexachlorobutadiene	50.0	42.08		ug/L		84	28 - 120
Hexachlorocyclopentadiene	50.0	36.08		ug/L		72	17 - 120
Hexachloroethane	50.0	38.23		ug/L		76	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	48.83		ug/L		98	54 - 125
Isophorone	50.0	49.90		ug/L		100	47 - 120
Naphthalene	50.0	42.75		ug/L		86	37 - 120
Nitrobenzene	50.0	51.69		ug/L		103	36 - 120
N-Nitrosodi-n-propylamine	50.0	56.64		ug/L		113	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	58.94		ug/L		118	58 - 149

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-63231/2-A

Matrix: Water

Analysis Batch: 63398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	50.0	53.01		ug/L		106	21 - 150
Phenanthrene	50.0	45.95		ug/L		92	56 - 120
Phenol	50.0	25.52		ug/L		51	14 - 120
Pyrene	50.0	50.15		ug/L		100	53 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Trif roB ophenol (Surr)	zz		13 - 123
2-Fluorof iphenyl (Surr)	74		20 - 123
2-Fluorophenol (Surr)	: z		13 - 123
Nitrof enbene-d: (Surr)	z4		27 - 123
Phenol-d: (Surr)	/ z		13 - 123
Terphenyl-d14 (Surr)	04		1/ - 123

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-62941/28

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			03/05/13 21:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	02		: 3 - 1: 3		3/ 5/ 5/ 21 25	1

Lab Sample ID: LCS 490-62941/26

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1053		ug/L		105	66 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	77		: 3 - 1: 3

Lab Sample ID: LCSD 490-62941/27

Matrix: Water

Analysis Batch: 62941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1032		ug/L		103	66 - 140	2	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	7z		: 3 - 1: 3

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-62734/1-A
Matrix: Water
Analysis Batch: 62785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62734

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		03/05/13 07:48	03/05/13 14:33	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	64		: 3 - 1: 3			3/ 5: 5/ 379z	3/ 5: 5/ 149/	1

Lab Sample ID: LCS 490-62734/2-A
Matrix: Water
Analysis Batch: 62785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	794.9		ug/L		79	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl (Surr)	71		: 3 - 1: 3				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-63209/3
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/06/13 15:29	1

Lab Sample ID: LCS 490-63209/4
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.01		mg/L		108	90 - 110

Lab Sample ID: LCSD 490-63209/5
Matrix: Water
Analysis Batch: 63209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	54.45		mg/L		109	90 - 110	1	20

Lab Sample ID: MB 490-63545/3
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/07/13 19:40	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-63545/4
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	50.13		mg/L		100	90 - 110

Lab Sample ID: LCSD 490-63545/5
Matrix: Water
Analysis Batch: 63545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.35		mg/L		97	90 - 110	4	20

Lab Sample ID: MB 490-64591/3
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			03/12/13 23:05	1

Lab Sample ID: LCS 490-64591/4
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.22		mg/L		104	90 - 110

Lab Sample ID: LCSD 490-64591/5
Matrix: Water
Analysis Batch: 64591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	51.83		mg/L		104	90 - 110	1	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-63228/1-A
Matrix: Water
Analysis Batch: 63655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63228

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Chromium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Cobalt	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:06	1
Copper	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Iron	ND		0.100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Lead	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Manganese	ND		0.0150	mg/L		03/06/13 14:45	03/07/13 22:06	1
Nickel	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Selenium	ND		0.0100	mg/L		03/06/13 14:45	03/07/13 22:06	1
Thallium	ND		0.00500	mg/L		03/06/13 14:45	03/07/13 22:06	1
Vanadium	ND		0.0200	mg/L		03/06/13 14:45	03/07/13 22:06	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-63228/2-A

Matrix: Water

Analysis Batch: 63655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.04960		mg/L		99	80 - 120
Chromium	0.200	0.2206		mg/L		110	80 - 120
Cobalt	0.500	0.4881		mg/L		98	80 - 120
Copper	0.250	0.2742		mg/L		110	80 - 120
Iron	1.00	1.093		mg/L		109	80 - 120
Lead	0.0500	0.05310		mg/L		106	80 - 120
Manganese	0.500	0.4941		mg/L		99	80 - 120
Nickel	0.500	0.5463		mg/L		109	80 - 120
Selenium	0.0500	0.05090		mg/L		102	80 - 120
Thallium	0.0500	0.05420		mg/L		108	80 - 120
Vanadium	0.500	0.4964		mg/L		99	80 - 120

Lab Sample ID: 490-20658-G-1-B MS

Matrix: Water

Analysis Batch: 63655

Client Sample ID: 490-20658-G-1-B MS

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.0500	0.06120		mg/L		107	75 - 125
Chromium	0.494		0.200	0.7108		mg/L		109	75 - 125
Cobalt	0.948		0.500	1.497		mg/L		110	75 - 125
Copper	0.319		0.250	0.5714		mg/L		101	75 - 125
Iron	2.72		1.00	3.616		mg/L		90	75 - 125
Lead	0.0125		0.0500	0.06510		mg/L		105	75 - 125
Manganese	43.9		0.500	44.46	4	mg/L		122	75 - 125
Nickel	0.558		0.500	1.140		mg/L		117	75 - 125
Selenium	0.0523		0.0500	0.1204	F	mg/L		136	75 - 125
Thallium	0.0573		0.0500	0.1134		mg/L		112	75 - 125
Vanadium	ND		0.500	0.4845		mg/L		97	75 - 125

Lab Sample ID: 490-20658-G-1-C MSD

Matrix: Water

Analysis Batch: 63655

Client Sample ID: 490-20658-G-1-C MSD

Prep Type: Total/NA

Prep Batch: 63228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.0500	0.06300		mg/L		110	75 - 125	3	20
Chromium	0.494		0.200	0.7003		mg/L		103	75 - 125	1	20
Cobalt	0.948		0.500	1.487		mg/L		108	75 - 125	1	20
Copper	0.319		0.250	0.5662		mg/L		99	75 - 125	1	20
Iron	2.72		1.00	3.573		mg/L		85	75 - 125	1	20
Lead	0.0125		0.0500	0.06220		mg/L		99	75 - 125	5	20
Manganese	43.9		0.500	44.45	4	mg/L		120	75 - 125	0	20
Nickel	0.558		0.500	1.121		mg/L		113	75 - 125	2	20
Selenium	0.0523		0.0500	0.1170	F	mg/L		129	75 - 125	3	20
Thallium	0.0573		0.0500	0.1134		mg/L		112	75 - 125	0	20
Vanadium	ND		0.500	0.4803		mg/L		96	75 - 125	1	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-63705/1-A

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63705

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Chromium	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Cobalt	ND		0.0200	mg/L		03/08/13 09:40	03/11/13 13:00	1
Copper	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Iron	ND		0.100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Lead	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Manganese	ND		0.0150	mg/L		03/08/13 09:40	03/11/13 13:00	1
Nickel	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Selenium	ND		0.0100	mg/L		03/08/13 09:40	03/11/13 13:00	1
Thallium	ND		0.00500	mg/L		03/08/13 09:40	03/11/13 13:00	1
Vanadium	ND		0.0200	mg/L		03/08/13 09:40	03/11/13 13:00	1

Lab Sample ID: LCS 490-63705/2-A

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.05240		mg/L		105	80 - 120
Chromium	0.200	0.2065		mg/L		103	80 - 120
Cobalt	0.500	0.5333		mg/L		107	80 - 120
Copper	0.250	0.2573		mg/L		103	80 - 120
Iron	1.00	1.066		mg/L		107	80 - 120
Lead	0.0500	0.05510		mg/L		110	80 - 120
Manganese	0.500	0.5504		mg/L		110	80 - 120
Nickel	0.500	0.5481		mg/L		110	80 - 120
Selenium	0.0500	0.05800		mg/L		116	80 - 120
Thallium	0.0500	0.05710		mg/L		114	80 - 120
Vanadium	0.500	0.5227		mg/L		105	80 - 120

Lab Sample ID: 490-20658-7 MS

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Dup-2

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.0500	ND		mg/L		NC	75 - 125
Chromium	2.11		0.200	2.160	4	mg/L		25	75 - 125
Cobalt	ND		0.500	ND		mg/L		104	75 - 125
Copper	ND		0.250	ND		mg/L		NC	75 - 125
Iron	ND		1.00	ND		mg/L		NC	75 - 125
Lead	ND		0.0500	ND		mg/L		NC	75 - 125
Manganese	ND		0.500	1.680		mg/L		88	75 - 125
Nickel	ND		0.500	ND		mg/L		114	75 - 125
Selenium	ND		0.0500	ND		mg/L		NC	75 - 125
Thallium	ND		0.0500	ND		mg/L		NC	75 - 125
Vanadium	2.49		0.500	3.020	4	mg/L		106	75 - 125

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-20658-7 MSD

Matrix: Water

Analysis Batch: 64234

Client Sample ID: Dup-2

Prep Type: Total/NA

Prep Batch: 63705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Chromium	2.11		0.200	2.080	4	mg/L		-15	75 - 125	4	20
Cobalt	ND		0.500	ND		mg/L		108	75 - 125	3	20
Copper	ND		0.250	ND		mg/L		NC	75 - 125	NC	20
Iron	ND		1.00	ND		mg/L		NC	75 - 125	NC	20
Lead	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Manganese	ND		0.500	1.710		mg/L		94	75 - 125	2	20
Nickel	ND		0.500	ND		mg/L		118	75 - 125	3	20
Selenium	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Thallium	ND		0.0500	ND		mg/L		NC	75 - 125	NC	20
Vanadium	2.49		0.500	2.950	4	mg/L		92	75 - 125	2	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC/MS VOA

Analysis Batch: 62691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8260B	
490-20658-3	OR-3W	Total/NA	Water	8260B	
490-20658-5	OR-5W	Total/NA	Water	8260B	
490-20658-7	Dup-2	Total/NA	Water	8260B	
490-20658-9	OR-10W	Total/NA	Water	8260B	
490-20658-9 MS	OR-10W	Total/NA	Water	8260B	
490-20658-9 MSD	OR-10W	Total/NA	Water	8260B	
490-20658-10	Trip Blank-4	Total/NA	Water	8260B	
490-20658-11	OS-10S	Total/NA	Water	8260B	
490-20658-12	OS-25S	Total/NA	Water	8260B	
490-20658-14	OS-20S	Total/NA	Water	8260B	
LCS 490-62691/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-62691/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-62691/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 62739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20643-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-20643-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-20658-1	OR-10S	Total/NA	Water	8260B	
490-20658-2	OS-10E	Total/NA	Water	8260B	
490-20658-3	OR-3W	Total/NA	Water	8260B	
490-20658-4	OS-5E	Total/NA	Water	8260B	
490-20658-5	OR-5W	Total/NA	Water	8260B	
490-20658-6	OS-5N	Total/NA	Water	8260B	
490-20658-8	OS-5S	Total/NA	Water	8260B	
490-20658-11	OS-10S	Total/NA	Water	8260B	
490-20658-12	OS-25S	Total/NA	Water	8260B	
490-20658-13	OS-15S	Total/NA	Water	8260B	
490-20658-14	OS-20S	Total/NA	Water	8260B	
LCS 490-62739/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-62739/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-62739/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 63231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3510C	
490-20658-2	OS-10E	Total/NA	Water	3510C	
490-20658-3	OR-3W	Total/NA	Water	3510C	
490-20658-4	OS-5E	Total/NA	Water	3510C	
490-20658-5	OR-5W	Total/NA	Water	3510C	
490-20658-6	OS-5N	Total/NA	Water	3510C	
490-20658-7	Dup-2	Total/NA	Water	3510C	
490-20658-8	OS-5S	Total/NA	Water	3510C	
490-20658-9	OR-10W	Total/NA	Water	3510C	
490-20658-11	OS-10S	Total/NA	Water	3510C	
490-20658-12	OS-25S	Total/NA	Water	3510C	
490-20658-13	OS-15S	Total/NA	Water	3510C	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC/MS Semi VOA (Continued)

Prep Batch: 63231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-14	OS-20S	Total/NA	Water	3510C	
LCS 490-63231/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-63231/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 63398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-2	OS-10E	Total/NA	Water	8270D	63231
490-20658-3	OR-3W	Total/NA	Water	8270D	63231
490-20658-4	OS-5E	Total/NA	Water	8270D	63231
490-20658-5	OR-5W	Total/NA	Water	8270D	63231
490-20658-6	OS-5N	Total/NA	Water	8270D	63231
490-20658-7	Dup-2	Total/NA	Water	8270D	63231
490-20658-8	OS-5S	Total/NA	Water	8270D	63231
490-20658-9	OR-10W	Total/NA	Water	8270D	63231
490-20658-11	OS-10S	Total/NA	Water	8270D	63231
490-20658-12	OS-25S	Total/NA	Water	8270D	63231
490-20658-13	OS-15S	Total/NA	Water	8270D	63231
490-20658-14	OS-20S	Total/NA	Water	8270D	63231
LCS 490-63231/2-A	Lab Control Sample	Total/NA	Water	8270D	63231
MB 490-63231/1-A	Method Blank	Total/NA	Water	8270D	63231

Analysis Batch: 63702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-1	OR-10S	Total/NA	Water	8270D	63231
490-20658-3	OR-3W	Total/NA	Water	8270D	63231
490-20658-5	OR-5W	Total/NA	Water	8270D	63231
490-20658-7	Dup-2	Total/NA	Water	8270D	63231
490-20658-8	OS-5S	Total/NA	Water	8270D	63231
490-20658-9	OR-10W	Total/NA	Water	8270D	63231
490-20658-11	OS-10S	Total/NA	Water	8270D	63231
490-20658-12	OS-25S	Total/NA	Water	8270D	63231
490-20658-13	OS-15S	Total/NA	Water	8270D	63231
490-20658-14	OS-20S	Total/NA	Water	8270D	63231

GC VOA

Analysis Batch: 62941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8015C	
490-20658-2	OS-10E	Total/NA	Water	8015C	
490-20658-3	OR-3W	Total/NA	Water	8015C	
490-20658-4	OS-5E	Total/NA	Water	8015C	
490-20658-5	OR-5W	Total/NA	Water	8015C	
490-20658-6	OS-5N	Total/NA	Water	8015C	
490-20658-7	Dup-2	Total/NA	Water	8015C	
490-20658-8	OS-5S	Total/NA	Water	8015C	
490-20658-9	OR-10W	Total/NA	Water	8015C	
490-20658-11	OS-10S	Total/NA	Water	8015C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

GC VOA (Continued)

Analysis Batch: 62941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-12	OS-25S	Total/NA	Water	8015C	
490-20658-13	OS-15S	Total/NA	Water	8015C	
490-20658-14	OS-20S	Total/NA	Water	8015C	
LCS 490-62941/26	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-62941/27	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-62941/28	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 62734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3510C	
490-20658-2	OS-10E	Total/NA	Water	3510C	
490-20658-3	OR-3W	Total/NA	Water	3510C	
490-20658-4	OS-5E	Total/NA	Water	3510C	
490-20658-5	OR-5W	Total/NA	Water	3510C	
490-20658-6	OS-5N	Total/NA	Water	3510C	
490-20658-7	Dup-2	Total/NA	Water	3510C	
490-20658-8	OS-5S	Total/NA	Water	3510C	
490-20658-9	OR-10W	Total/NA	Water	3510C	
490-20658-11	OS-10S	Total/NA	Water	3510C	
490-20658-12	OS-25S	Total/NA	Water	3510C	
490-20658-13	OS-15S	Total/NA	Water	3510C	
490-20658-14	OS-20S	Total/NA	Water	3510C	
LCS 490-62734/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-62734/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 62785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	8015C	62734
490-20658-4	OS-5E	Total/NA	Water	8015C	62734
490-20658-6	OS-5N	Total/NA	Water	8015C	62734
490-20658-13	OS-15S	Total/NA	Water	8015C	62734
LCS 490-62734/2-A	Lab Control Sample	Total/NA	Water	8015C	62734
MB 490-62734/1-A	Method Blank	Total/NA	Water	8015C	62734

Analysis Batch: 63104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	8015C	62734
490-20658-3	OR-3W	Total/NA	Water	8015C	62734
490-20658-5	OR-5W	Total/NA	Water	8015C	62734
490-20658-7	Dup-2	Total/NA	Water	8015C	62734
490-20658-8	OS-5S	Total/NA	Water	8015C	62734
490-20658-9	OR-10W	Total/NA	Water	8015C	62734
490-20658-11	OS-10S	Total/NA	Water	8015C	62734
490-20658-12	OS-25S	Total/NA	Water	8015C	62734
490-20658-14	OS-20S	Total/NA	Water	8015C	62734

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

HPLC/IC

Analysis Batch: 63209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	300.0	
490-20658-3	OR-3W	Total/NA	Water	300.0	
490-20658-4	OS-5E	Total/NA	Water	300.0	
490-20658-5	OR-5W	Total/NA	Water	300.0	
490-20658-6	OS-5N	Total/NA	Water	300.0	
490-20658-7	Dup-2	Total/NA	Water	300.0	
490-20658-8	OS-5S	Total/NA	Water	300.0	
490-20658-9	OR-10W	Total/NA	Water	300.0	
490-20658-11	OS-10S	Total/NA	Water	300.0	
490-20658-12	OS-25S	Total/NA	Water	300.0	
490-20658-14	OS-20S	Total/NA	Water	300.0	
LCS 490-63209/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-63209/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-63209/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 63545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-13	OS-15S	Total/NA	Water	300.0	
LCS 490-63545/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-63545/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-63545/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 64591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	300.0	
LCS 490-64591/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-64591/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-64591/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 63228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	3010A	
490-20658-2	OS-10E	Total/NA	Water	3010A	
490-20658-3	OR-3W	Total/NA	Water	3010A	
490-20658-4	OS-5E	Total/NA	Water	3010A	
490-20658-5	OR-5W	Total/NA	Water	3010A	
490-20658-6	OS-5N	Total/NA	Water	3010A	
490-20658-9	OR-10W	Total/NA	Water	3010A	
490-20658-11	OS-10S	Total/NA	Water	3010A	
490-20658-12	OS-25S	Total/NA	Water	3010A	
490-20658-13	OS-15S	Total/NA	Water	3010A	
490-20658-14	OS-20S	Total/NA	Water	3010A	
490-20658-G-1-B MS	490-20658-G-1-B MS	Total/NA	Water	3010A	
490-20658-G-1-C MSD	490-20658-G-1-C MSD	Total/NA	Water	3010A	
LCS 490-63228/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-63228/1-A	Method Blank	Total/NA	Water	3010A	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Metals (Continued)

Analysis Batch: 63655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-2	OS-10E	Total/NA	Water	6010C	63228
490-20658-3	OR-3W	Total/NA	Water	6010C	63228
490-20658-4	OS-5E	Total/NA	Water	6010C	63228
490-20658-5	OR-5W	Total/NA	Water	6010C	63228
490-20658-6	OS-5N	Total/NA	Water	6010C	63228
490-20658-9	OR-10W	Total/NA	Water	6010C	63228
490-20658-11	OS-10S	Total/NA	Water	6010C	63228
490-20658-12	OS-25S	Total/NA	Water	6010C	63228
490-20658-13	OS-15S	Total/NA	Water	6010C	63228
490-20658-14	OS-20S	Total/NA	Water	6010C	63228
490-20658-G-1-B MS	490-20658-G-1-B MS	Total/NA	Water	6010C	63228
490-20658-G-1-C MSD	490-20658-G-1-C MSD	Total/NA	Water	6010C	63228
LCS 490-63228/2-A	Lab Control Sample	Total/NA	Water	6010C	63228
MB 490-63228/1-A	Method Blank	Total/NA	Water	6010C	63228

Prep Batch: 63705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-7	Dup-2	Total/NA	Water	3010A	
490-20658-7 MS	Dup-2	Total/NA	Water	3010A	
490-20658-7 MSD	Dup-2	Total/NA	Water	3010A	
490-20658-8	OS-5S	Total/NA	Water	3010A	
LCS 490-63705/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-63705/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 63809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-1	OR-10S	Total/NA	Water	6010C	63228
490-20658-5	OR-5W	Total/NA	Water	6010C	63228

Analysis Batch: 64234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-20658-7	Dup-2	Total/NA	Water	6010C	63705
490-20658-7 MS	Dup-2	Total/NA	Water	6010C	63705
490-20658-7 MSD	Dup-2	Total/NA	Water	6010C	63705
490-20658-8	OS-5S	Total/NA	Water	6010C	63705
LCS 490-63705/2-A	Lab Control Sample	Total/NA	Water	6010C	63705
MB 490-63705/1-A	Method Blank	Total/NA	Water	6010C	63705



Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10S

Lab Sample ID: 490-20658-1

Date Collected: 02/28/13 08:30

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 02:59	EL	TAL NSH
Total/NA	Analysis	8260B		20	62739	03/05/13 18:01	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 19:52	BS	TAL NSH
Total/NA	Analysis	8270D		100	63702	03/08/13 15:16	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:01	BS	TAL NSH
Total/NA	Analysis	8015C		5	62941	03/05/13 22:26	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 11:51	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 18:02	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		100	63809	03/08/13 10:38	BB	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-20658-2

Date Collected: 02/28/13 08:40

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 15:45	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:13	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 22:56	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 15:21	JL	TAL NSH
Total/NA	Analysis	300.0		5	64591	03/13/13 00:05	HT	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:23	BB	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 03:53	EL	TAL NSH
Total/NA	Analysis	8260B		5	62739	03/05/13 18:28	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:34	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:22	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 23:27	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:07	JJ	TAL NSH
Total/NA	Analysis	300.0		100	63209	03/06/13 18:41	KD	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-3W

Lab Sample ID: 490-20658-3

Date Collected: 02/28/13 09:55

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:27	BB	TAL NSH

Client Sample ID: OS-5E

Lab Sample ID: 490-20658-4

Date Collected: 02/28/13 10:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 16:12	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 20:55	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/05/13 23:57	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 15:53	JL	TAL NSH
Total/NA	Analysis	300.0		10	63209	03/06/13 19:00	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:30	BB	TAL NSH

Client Sample ID: OR-5W

Lab Sample ID: 490-20658-5

Date Collected: 02/28/13 11:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 04:47	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 18:56	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:16	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 11:43	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 00:27	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 12:24	JJ	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 19:19	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:34	BB	TAL NSH
Total/NA	Analysis	6010C		10	63809	03/08/13 10:42	BB	TAL NSH

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 16:40	EL	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-5N

Lab Sample ID: 490-20658-6

Date Collected: 02/28/13 11:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:37	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 00:57	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 16:25	JL	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 20:16	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:51	BB	TAL NSH

Client Sample ID: Dup-2

Lab Sample ID: 490-20658-7

Date Collected: 02/28/13 00:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 05:41	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 21:58	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:04	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 01:28	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:40	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 20:36	KD	TAL NSH
Total/NA	Prep	3010A			63705	03/08/13 09:40	MT	TAL NSH
Total/NA	Analysis	6010C		100	64234	03/11/13 13:07	BB	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-20658-8

Date Collected: 02/28/13 12:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 17:07	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 22:20	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:26	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 01:58	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 12:56	JJ	TAL NSH
Total/NA	Analysis	300.0		500	63209	03/06/13 20:55	KD	TAL NSH
Total/NA	Prep	3010A			63705	03/08/13 09:40	MT	TAL NSH
Total/NA	Analysis	6010C		100	64234	03/11/13 13:18	BB	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OR-10W

Lab Sample ID: 490-20658-9

Date Collected: 02/28/13 12:45

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 06:35	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 22:41	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 12:48	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 02:28	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		2	63104	03/06/13 13:12	JJ	TAL NSH
Total/NA	Analysis	300.0		200	63209	03/06/13 21:14	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:54	BB	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-20658-10

Date Collected: 02/28/13 08:00

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 01:38	EL	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-20658-11

Date Collected: 02/28/13 13:25

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 07:03	EL	TAL NSH
Total/NA	Analysis	8260B		5	62739	03/05/13 19:23	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:02	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 13:09	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 02:58	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		4	63104	03/06/13 13:28	JJ	TAL NSH
Total/NA	Analysis	300.0		100	63209	03/06/13 21:34	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 22:58	BB	TAL NSH

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 07:30	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 19:50	EL	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Client Sample ID: OS-25S

Lab Sample ID: 490-20658-12

Date Collected: 02/28/13 14:10

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:23	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 14:13	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 03:29	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 13:44	JJ	TAL NSH
Total/NA	Analysis	300.0		10	63209	03/06/13 21:53	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:02	BB	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-20658-13

Date Collected: 02/28/13 14:20

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62739	03/05/13 17:34	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/07/13 23:44	BS	TAL NSH
Total/NA	Analysis	8270D		2	63702	03/08/13 14:34	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 03:59	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		1	62785	03/05/13 18:51	JL	TAL NSH
Total/NA	Analysis	300.0		1	63545	03/08/13 02:21	HT	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:05	BB	TAL NSH

Client Sample ID: OS-20S

Lab Sample ID: 490-20658-14

Date Collected: 02/28/13 15:15

Matrix: Water

Date Received: 03/01/13 13:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	62691	03/05/13 08:24	EL	TAL NSH
Total/NA	Analysis	8260B		10	62739	03/05/13 20:17	EL	TAL NSH
Total/NA	Prep	3510C			63231	03/06/13 14:57	NR	TAL NSH
Total/NA	Analysis	8270D		1	63398	03/08/13 00:05	BS	TAL NSH
Total/NA	Analysis	8270D		10	63702	03/08/13 14:55	BS	TAL NSH
Total/NA	Analysis	8015C		1	62941	03/06/13 04:29	GM	TAL NSH
Total/NA	Prep	3510C			62734	03/05/13 07:48	RH	TAL NSH
Total/NA	Analysis	8015C		5	63104	03/06/13 14:00	JJ	TAL NSH
Total/NA	Analysis	300.0		50	63209	03/06/13 22:31	KD	TAL NSH
Total/NA	Prep	3010A			63228	03/06/13 14:45	MT	TAL NSH
Total/NA	Analysis	6010C		1	63655	03/07/13 23:09	BB	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13030064

TestAmerica Job ID: 490-20658-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	03-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13





COOLER RECEIPT FORM

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0330 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES...NO...NA (1 front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES (NO)...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [initials]

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) [initials]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [initials]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [initials]

I certify that I attached a label with the unique LIMS number to each container (initial) [initials]

21. Were there Non-Conformance issues at login? YES (NO) Was a NCM generated? YES (NO) .#



THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
B

Cooler Received/Opened On : 03/01/13 @ 0810

Tracking # 4839 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

- 1. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius
- 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...**NA**
- 4. Were custody seals on outside of cooler? **YES**...NO...NA
If yes, how many and where: 1 front
- 5. Were the seals intact, signed, and dated correctly? **YES**...NO...NA
- 6. Were custody papers inside cooler? **YES**...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

- 7. Were custody seals on containers: YES **NO** and Intact YES NO **NA**
Were these signed and dated correctly? YES...NO...**NA**
- 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
- 9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
- 10. Did all containers arrive in good condition (unbroken)? **YES**...NO...NA
- 11. Were all container labels complete (#, date, signed, pres., etc)? **YES**...NO...NA
- 12. Did all container labels and tags agree with custody papers? **YES**...NO...NA
- 13a. Were VOA vials received? YES **NO**...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...**NA**
- 14. Was there a Trip Blank in this cooler? YES...**NO**...NA If multiple coolers, sequence # AH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...**NA**
- b. Did the bottle labels indicate that the correct preservatives were used **YES**...NO...NA
- 16. Was residual chlorine present? YES...**NO**...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

- 17. Were custody papers properly filled out (ink, signed, etc)? **YES**...NO...NA
- 18. Did you sign the custody papers in the appropriate place? **YES**...NO...NA
- 19. Were correct containers used for the analysis requested? **YES**...NO...NA
- 20. Was sufficient amount of sample sent in each container? **YES**...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

- 21. Were there Non-Conformance issues at login? YES...**NO** Was a NCM generated? YES...**NO**..#





THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
C

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0351 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EA

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO #

BIS = Broken in shipment
Cooler Receipt Form.doc



COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
D

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0899 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (Frank) YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JS

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # AH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JW

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JW

I certify that I attached a label with the unique LIMS number to each container (initial) JW

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#



THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
E

Cooler Received/Opened On : 03/01/13 @ 0810

Tracking # 0400 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA YES NO NA

4. Were custody seals on outside of cooler? YES NO NA
If yes, how many and where: IF front

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) AK

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # 0



COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#1
F

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 0340 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: (-0) Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? (1 Seal) YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) (Signature)

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (Initial) Att

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES..NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) (Signature)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) (Signature)

I certify that I attached a label with the unique LIMS number to each container (Initial) (Signature)

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..# _____

COOLER RECEIPT FORM

Charlotte

Loc: 490
20658
#2
A

Cooler Received/Opened On 3/1/2013 @ 0810

1. Tracking # 1200 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? 1 front YES...NO...NA
If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? NA YES...NO...NA

6. Were custody papers inside cooler? NA YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AB

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? NA YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? NA YES...NO...NA

12. Did all container labels and tags agree with custody papers? NA YES...NO...NA

13a. Were VOA vials received? NA YES...NO...NA

b. Was there any observable headspace present in any VOA vial? NA YES...NO...NA

14. Was there a Trip Blank in this cooler? YES NO..NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) Att

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO NA

b. Did the bottle labels indicate that the correct preservatives were used NA YES...NO...NA

16. Was residual chlorine present? NA YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? NA YES...NO...NA

18. Did you sign the custody papers in the appropriate place? NA YES...NO...NA

19. Were correct containers used for the analysis requested? NA YES...NO...NA

20. Was sufficient amount of sample sent in each container? NA YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO..# _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Loc: 490
20658

5755 8th Street East, Tacoma, WA 98424-1317
11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days*

Organic & Inorganic Analyses	<input type="checkbox"/> 10	<input type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> <1
Petroleum Hydrocarbon Analyses	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> <1		

OTHER Specify:

CLIENT: Duke Energy	INVOICE TO:	REPORT TO: Andy Clark	ADDRESS: 2801 Yorkmont Rd Charlotte, NC 28208	PHONE:	FAX:	PROJECT NAME: Duke Energy Spartanburg	PROJECT NUMBER: 6238-12-C021	SAMPLED BY: Trey Hochschuh + Kelley Clark	SAMPLING DATE/TIME	CLIENT SAMPLE IDENTIFICATION	HCL	ND	HNO ₃	NO ₂	HCL	HCL	RESERVED ANALYSES	DATE	TIME	DATE	TIME	RECEIVED BY: N. Boljan	PRINT NAME: Mike M. Gale	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	
RELEASED BY: Trey L Hochschuh	FIRM: AMEL	DATE: 2-28-13	TIME: 1110	RECEIVED BY: N. Boljan	PRINT NAME: Mike M. Gale	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	DATE: 3/13	TIME: 1110	DATE: 3/13	TIME: 0810	DATE: 3/13	TIME: 1110	
1	OR-10S	2-28-13/	830	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	OS-10E	2-28-13/	840	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
3	OR-3W	2-28-13/	955	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
4	OS-5E	2-28-13/	1000	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	OR-5W	2-28-13/	1110	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	OS-5N	2-28-13/	1100	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
7	Dup-2	2-28-13/	-	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
8	OS-5S	2-28-13/	1200	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
9	OR-10W	2-28-13/	1245	3	2	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
10	TriA Blank-4	2-28-13/	800	2																								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
11922 E. First Ave., Spokane WA 99206-5302
9405 SW Nimbus Ave., Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-23
509-924-92
503-906-9200
907-563-9200

Loc: 490
20658
#1
A

FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses
 10 7 5 4 3 2 1 <1
 STD.

Petroleum Hydrocarbon Analyses
 5 4 3 2 1 <1
 STD.

OTHER Specify:

* Turnaround Request less than standard may incur Rush Charges.

CLIENT: Duke Energy		INVOICE TO:		PRESERVATIVE		P.O. NUMBER:	
REPORT TO: Andy Clark 2801 Yorkmont Rd Charlottesville VA 28208		PROJECT NUMBER: 6228-12-0021		PROJECT NAME: Duke Energy Spar Tanburg		SAMPLER BY: Trey Holzschuh, Rodney Clark	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	HCL	NO	HMB	NO	HQ	HQ
05-105	2-28-13 / 1325	VOCs	3	Metals	1	DRO	3
05-255	2-28-13 / 1410	SVOCs	2	Sulfate	1	GRD	3
05-155	2-28-13 / 1420		3		1		3
05-205	2-28-13 / 1515		3		1		3
10							
9							
8							
7							
6							
5							
4							
3							
2							
1							
RECEIVED BY: A. Berkham	DATE: 2/28/13	PRINT NAME: Mike m'side	DATE: 3-1-13	FRM: TR	FRM: TR	TEMP: 0810	FRM: TR
RELEASED BY: Troy Holzschuh	DATE: 2-28-13	PRINT NAME: Mike m'side	DATE: 3-1-13	FRM: TR	FRM: TR	TEMP: 0810	FRM: TR
ADDITIONAL REMARKS: Metals: Vanadium, Arsenic, Chromium, Selenium, Thallium, Copper, Nickel, Lead, Iron, Manganese, Cobalt							

TAL-1000 (0612)

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-20658-1

Login Number: 20658

List Source: TestAmerica Nashville

List Number: 1

Creator: Myers, Madonna

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4''$).	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13040074
Project Name:
Customer Name(s): Andy Clark, Jessica Bednarcik
Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)


Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.04.16.13:47:51 -0400
Jason C Perkins

Date: 4/16/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013007209	SPARTANBURG	27-Mar-13 8:00 AM	AMEC	490-23087 Trip Blank-1
2013007210	SPARTANBURG	27-Mar-13 8:05 AM	AMEC	490-23087 Trip Blank - 2
2013007211	SPARTANBURG	27-Mar-13 10:15 AM	AMEC	490-23087 MW-13 ISOC
2013007212	SPARTANBURG	27-Mar-13 10:55 AM	AMEC	490-23087 OR-10W
2013007213	SPARTANBURG	27-Mar-13 11:50 AM	AMEC	490-23087 OR-5W
2013007214	SPARTANBURG	27-Mar-13 12:55 PM	AMEC	490-23087 OR-3W
2013007215	SPARTANBURG	27-Mar-13 1:50 PM	AMEC	490-23087 OR-3S
2013007216	SPARTANBURG	27-Mar-13 2:30 PM	AMEC	490-23087 OR-5S
2013007217	SPARTANBURG	27-Mar-13 8:10 AM	AMEC	490-23087 Trip Blank-3
2013007218	SPARTANBURG	27-Mar-13 3:15 PM	AMEC	490-23087 OR-10S
2013007219	SPARTANBURG	27-Mar-13 8:15 AM	AMEC	490-23087 Trip Blank-4
2013007220	SPARTANBURG	27-Mar-13 4:05 PM	AMEC	490-23087 OS-20S
2013007221	SPARTANBURG	27-Mar-13 8:20 AM	AMEC	490-23087 Trip Blank-5
2013007222	SPARTANBURG	27-Mar-13 4:50 PM	AMEC	490-23087 OS-15S
2013007223	SPARTANBURG	27-Mar-13 5:30 PM	AMEC	490-23087 OS-10S
2013007225	SPARTANBURG	28-Mar-13 8:00 AM	AMEC	490-23087 Trip Blank-6
2013007226	SPARTANBURG	28-Mar-13 8:05 AM	AMEC	490-23087 Trip Blank-7
2013007227	SPARTANBURG	28-Mar-13 9:40 AM	AMEC	490-23087 OS-5S
2013007228	SPARTANBURG	28-Mar-13 10:50 AM	AMEC	490-23087 OS-5E
2013007229	SPARTANBURG	28-Mar-13 11:45 AM	AMEC	490-23087 OS-10e
2013007230	SPARTANBURG	28-Mar-13 9:50 AM	AMEC	490-23087 MW-13 S-2
2013007231	SPARTANBURG	27-Mar-13 5:40 PM	AMEC	490-23087 MW-13 S-1

22 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No

All Results are less than the laboratory reporting limits. Yes No

All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualification for 2013: Test America

Report Sections Included:

Job Summary Report

Sample Identification

Technical Validation of Data Package

Analytical Laboratory Certificate of Analysis

Analytical Laboratory QC Report

Sub-contracted Laboratory Results

Customer Specific Data Sheets, Reports, & Documentation

Customer Database Entries

Chain of Custody

Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: DBA Account

Date: 4/16/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 Trip Blank-1
Collection Date: 27-Mar-13 8:00 AM

Sample #: 2013007209
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank - 2
Collection Date: 27-Mar-13 8:05 AM

Sample #: 2013007210
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 MW-13 ISOC
Collection Date: 27-Mar-13 10:15 AM

Sample #: 2013007211
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-10W
Collection Date: 27-Mar-13 10:55 AM

Sample #: 2013007212
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 OR-10W

Collection Date: 27-Mar-13 10:55 AM

Sample #: 2013007212

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-5W

Collection Date: 27-Mar-13 11:50 AM

Sample #: 2013007213

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-3W

Collection Date: 27-Mar-13 12:55 PM

Sample #: 2013007214

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 OR-3S

Collection Date: 27-Mar-13 1:50 PM

Sample #: 2013007215

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-5S

Collection Date: 27-Mar-13 2:30 PM

Sample #: 2013007216

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-3

Collection Date: 27-Mar-13 8:10 AM

Sample #: 2013007217

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 OR-10S

Collection Date: 27-Mar-13 3:15 PM

Sample #: 2013007218

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-4

Collection Date: 27-Mar-13 8:15 AM

Sample #: 2013007219

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-20S

Collection Date: 27-Mar-13 4:05 PM

Sample #: 2013007220

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 Trip Blank-5
Collection Date: 27-Mar-13 8:20 AM

Sample #: 2013007221
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-15S
Collection Date: 27-Mar-13 4:50 PM

Sample #: 2013007222
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-10S
Collection Date: 27-Mar-13 5:30 PM

Sample #: 2013007223
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 Trip Blank-6
Collection Date: 28-Mar-13 8:00 AM

Sample #: 2013007225
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-7
Collection Date: 28-Mar-13 8:05 AM

Sample #: 2013007226
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-5S
Collection Date: 28-Mar-13 9:40 AM

Sample #: 2013007227
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-5E
Collection Date: 28-Mar-13 10:50 AM

Sample #: 2013007228
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 OS-5E

Collection Date: 28-Mar-13 10:50 AM

Sample #: 2013007228

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-10e

Collection Date: 28-Mar-13 11:45 AM

Sample #: 2013007229

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 MW-13 S-2

Collection Date: 28-Mar-13 9:50 AM

Sample #: 2013007230

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SPECIFIC CONDUCTANCE - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

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Order # J13040074

Site: 490-23087 MW-13 S-1

Collection Date: 27-Mar-13 5:40 PM

Sample #: 2013007231

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-23087-1
Client Project/Site: Pine Street MGP (Spartanburg) J13040074

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
4/12/2013 6:38:46 PM

Shali Brown
Project Manager I
shali.brown@testamericainc.com



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-23087-1	Trip Blank-1	Water	03/27/13 08:00	03/29/13 08:00
490-23087-2	Trip Blank-2	Water	03/27/13 08:05	03/29/13 08:00
490-23087-3	MW-13 ISOC	Water	03/27/13 10:15	03/29/13 08:00
490-23087-4	OR-10W	Water	03/27/13 10:55	03/29/13 08:00
490-23087-5	OR-5W	Water	03/27/13 11:50	03/29/13 08:00
490-23087-6	OR-3W	Water	03/27/13 12:55	03/29/13 08:00
490-23087-7	OR-3S	Water	03/27/13 13:50	03/29/13 08:00
490-23087-8	OR-5S	Water	03/27/13 14:30	03/29/13 08:00
490-23087-9	Trip Blank-3	Water	03/27/13 08:10	03/29/13 08:00
490-23087-10	OR-10S	Water	03/27/13 15:15	03/29/13 08:00
490-23087-11	Trip Blank-4	Water	03/27/13 08:15	03/29/13 08:00
490-23087-12	OS-20S	Water	03/27/13 16:05	03/29/13 08:00
490-23087-13	Trip Blank-5	Water	03/27/13 08:20	03/29/13 08:00
490-23087-14	OS-15S	Water	03/27/13 16:50	03/29/13 08:00
490-23087-15	OS-10S	Water	03/27/13 17:30	03/29/13 08:00
490-23087-16	Trip Blank-6	Water	03/28/13 08:00	03/29/13 08:00
490-23087-17	Trip Blank-7	Water	03/28/13 08:05	03/29/13 08:00
490-23087-18	OS-5S	Water	03/28/13 09:40	03/29/13 08:00
490-23087-19	OS-5E	Water	03/28/13 10:50	03/29/13 08:00
490-23087-20	OS-10E	Water	03/28/13 11:45	03/29/13 08:00
490-23087-21	MW-13S-2	Water	03/28/13 09:50	03/29/13 08:00
490-23087-22	MW-13S-1	Water	03/27/13 17:40	03/29/13 08:00
490-23087-23	Trip Blank-8	Water	03/28/13 00:01	03/29/13 08:00

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Job ID: 490-23087-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP (Spartanburg) J13040074

Report Number: 490-23087-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/29/2013 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.1° C, 0.5° C, 0.6° C, 0.6° C, 0.6° C, 0.7° C, 1.1° C and 1.5° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Trip Blank-1 (490-23087-1), Trip Blank-2 (490-23087-2), MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), Trip Blank-3 (490-23087-9), OR-10S (490-23087-10), Trip Blank-4 (490-23087-11), OS-20S (490-23087-12), Trip Blank-5 (490-23087-13), OS-15S (490-23087-14), OS-10S (490-23087-15), Trip Blank-6 (490-23087-16), Trip Blank-7 (490-23087-17), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21), MW-13S-1 (490-23087-22) and Trip Blank-8 (490-23087-23) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/01/2013, 04/02/2013, 04/03/2013 and 04/09/2013.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for OR-3S (490-23087-7). Evidence of matrix interference is present, confirmed by repeat analysis; therefore, data has been reported

The following sample was collected in a properly preserved vial, however, the pH was outside the required criteria when verified by the laboratory: OR-3S (490-23087-7).



Client: Duke Energy Corporation
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Job ID: 490-23087-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)**

1,1-Dichloroethene failed the recovery criteria high for LCS 490-69278/3. 1,1-Dichloroethene and Dichlorodifluoromethane failed the recovery criteria high for LCS 490-69679/3. 1,1-Dichloroethene and trans-1,2-Dichloroethene failed the recovery criteria high for LCSD 490-69278/4. 1,1-Dichloroethene and Dichlorodifluoromethane failed the recovery criteria high for LCSD 490-69679/4.

1,1-Dichloroethene failed the recovery criteria high for LCSD 490-69767/4. 1,1-Dichloroethene failed the recovery criteria high for LCSD 490-70865/4. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The following sample(s) was diluted due to the nature of the sample matrix: MW-13S-2 (490-23087-21). Elevated reporting limits (RLs) are provided.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69679, 69278, 69767, 69277, and 70865.

Samples MW-13 ISOC (490-23087-3)[10X], OR-10S (490-23087-10)[50X], OS-20S (490-23087-12)[5X], OS-10S (490-23087-15)[5X], OS-5S (490-23087-18)[5X], MW-13S-2 (490-23087-21)[20X] and MW-13S-1 (490-23087-22)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/30/2013 and analyzed on 04/02/2013, 04/03/2013 and 04/04/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69074.

Samples OR-10S (490-23087-10)[10X], MW-13S-2 (490-23087-21)[10X] and MW-13S-2 (490-23087-21)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 04/02/2013 and 04/03/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69126 and 69585. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MW-13S-2 (490-23087-21). Sample was analyzed within the 7 day holding time.

The following sample(s) was diluted due to the nature of the sample matrix: MW-13S-1 (490-23087-22), OR-10S (490-23087-10). Elevated reporting limits (RLs) are provided. Samples foamed.

Samples MW-13 ISOC (490-23087-3)[5X], OR-10S (490-23087-10)[5X], MW-13S-2 (490-23087-21)[10X] and MW-13S-1 (490-23087-22) [5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Job ID: 490-23087-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)****DIESEL RANGE ORGANICS (DRO)**

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 03/30/2013 and analyzed on 04/01/2013 and 04/02/2013.

Surrogate recovery for the following sample(s) was outside control limits: MW-13 ISOC (490-23087-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed

o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13S-2 (490-23087-21). o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13S-1 (490-23087-22). o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13 ISOC (490-23087-3). Due to the level of dilution required for the following sample(s), surrogate recoveries are not accurate: MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22). Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69051.

Samples MW-13 ISOC (490-23087-3)[5X], OR-10W (490-23087-4)[2X], OR-10S (490-23087-10)[10X], OS-20S (490-23087-12)[4X], OS-10S (490-23087-15)[2X], MW-13S-2 (490-23087-21)[100X] and MW-13S-1 (490-23087-22)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/02/2013 and 04/05/2013 and analyzed on 04/03/2013, 04/04/2013 and 04/05/2013.

Iron failed the recovery criteria high for the MS and MSD of sample 490-23123-12 in batch 490-69974. Several analytes failed the recovery criteria low for the MS and MSD of sample 490-23206-9 in batch 490-70690. Aluminum and Iron failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The following sample(s) was diluted due to the abundance of non-target analytes: yttrium OS-10S (490-23087-15). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: Mn OR-10S (490-23087-10). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of Al, Na, and S.: MW-13S-2 (490-23087-21). Elevated reporting limits (RLs) are provided.

Samples OR-3W (490-23087-6)[2X], OR-10S (490-23087-10)[10X], OR-10S (490-23087-10)[100X], OS-10S (490-23087-15)[100X] and MW-13S-2 (490-23087-21)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

REDUCTION-OXIDATION (REDOX) POTENTIAL

Sample MW-13S-2 (490-23087-21) was analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM 2580B Oxidation Reduction Potential. The samples were analyzed on 04/10/2013.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Job ID: 490-23087-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time. The following sample(s) was prepared and/or analyzed outside this time period: MW-13S-2 (490-23087-21).

No other difficulties were encountered during the redox analysis. All other quality control parameters were within the acceptance limits.

SULFATE

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 04/06/2013, 04/07/2013 and 04/09/2013.

Samples MW-13 ISOC (490-23087-3)[100X], OR-10W (490-23087-4)[100X], OR-5W (490-23087-5)[50X], OR-3W (490-23087-6)[200X], OR-3S (490-23087-7)[200X], OR-5S (490-23087-8)[5X], OR-10S (490-23087-10)[500X], OS-20S (490-23087-12)[10X], OS-15S (490-23087-14)[5X], OS-10S (490-23087-15)[100X], OS-5S (490-23087-18)[500X], OS-5E (490-23087-19)[5X], OS-10E (490-23087-20)[5X], MW-13S-2 (490-23087-21)[500X] and MW-13S-1 (490-23087-22)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the sulfate analyses. All other quality control parameters were within the acceptance limits.

CONDUCTIVITY

Sample MW-13S-2 (490-23087-21) was analyzed for conductivity in accordance with EPA SW846 Method 9050A. The samples were analyzed on 04/06/2013.

Conductivity concentration estimated for the following sample(s) : MW-13S-2 (490-23087-21). Result is equal to upper reporting range of 100,000 umhos/cm.

No other difficulties were encountered during the conductivity analysis. All other quality control parameters were within the acceptance limits.

ORGANIC PREP

Method(s) 3510C: Samples were not able to be treated for residual chlorine. The initial chlorine reading using a strip indicator for all samples were over 10 mg/L which is the highest reading on the strip. Sample -04: After placing 150g of thiosulfate in the sample the chlorine reading was still reading 6mg/L. All samples were treated with thiosulfate but not all residual chlorine could be removed.

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 16:52	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 16:52	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 16:52	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:52	1
2-Hexanone	ND		10.0	ug/L			04/01/13 16:52	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 16:52	1
Acetone	ND		50.0	ug/L			04/01/13 16:52	1
Benzene	ND		1.00	ug/L			04/01/13 16:52	1
Bromobenzene	ND		1.00	ug/L			04/01/13 16:52	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 16:52	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 16:52	1
Bromoform	ND		1.00	ug/L			04/01/13 16:52	1
Bromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 16:52	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 16:52	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Chloroethane	ND		1.00	ug/L			04/01/13 16:52	1
Chloroform	ND		1.00	ug/L			04/01/13 16:52	1
Chloromethane	ND		1.00	ug/L			04/01/13 16:52	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
Dibromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 16:52	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 16:52	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 16:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 16:52	1
Naphthalene	ND		5.00	ug/L			04/01/13 16:52	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 16:52	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Styrene	ND		1.00	ug/L			04/01/13 16:52	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 16:52	1
Toluene	ND		1.00	ug/L			04/01/13 16:52	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
Trichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 16:52	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 16:52	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 16:52	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 16:52	1
Dibromofluoromethane (Surr)	104		70 - 130		04/01/13 16:52	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 16:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 17:19	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 17:19	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 17:19	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:19	1
2-Hexanone	ND		10.0	ug/L			04/01/13 17:19	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 17:19	1
Acetone	ND		50.0	ug/L			04/01/13 17:19	1
Benzene	ND		1.00	ug/L			04/01/13 17:19	1
Bromobenzene	ND		1.00	ug/L			04/01/13 17:19	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 17:19	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 17:19	1
Bromoform	ND		1.00	ug/L			04/01/13 17:19	1
Bromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 17:19	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 17:19	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Chloroethane	ND		1.00	ug/L			04/01/13 17:19	1
Chloroform	ND		1.00	ug/L			04/01/13 17:19	1
Chloromethane	ND		1.00	ug/L			04/01/13 17:19	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
Dibromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 17:19	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 17:19	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 17:19	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 17:19	1
Naphthalene	ND		5.00	ug/L			04/01/13 17:19	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 17:19	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Styrene	ND		1.00	ug/L			04/01/13 17:19	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 17:19	1
Toluene	ND		1.00	ug/L			04/01/13 17:19	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
Trichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 17:19	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 17:19	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 17:19	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 17:19	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 17:19	1
Toluene-d8 (Surr)	95		70 - 130		04/01/13 17:19	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 20:28	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,4-Trimethylbenzene	136		1.00	ug/L			04/01/13 20:28	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 20:28	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,3,5-Trimethylbenzene	46.9		1.00	ug/L			04/01/13 20:28	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 20:28	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:28	1
2-Hexanone	ND		10.0	ug/L			04/01/13 20:28	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:28	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 20:28	1
Acetone	97.3		50.0	ug/L			04/01/13 20:28	1
Benzene	720		10.0	ug/L			04/03/13 00:19	10
Bromobenzene	ND		1.00	ug/L			04/01/13 20:28	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 20:28	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 20:28	1
Bromoform	ND		1.00	ug/L			04/01/13 20:28	1
Bromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Carbon disulfide	1.66		1.00	ug/L			04/01/13 20:28	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 20:28	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Chloroethane	ND		1.00	ug/L			04/01/13 20:28	1
Chloroform	ND		1.00	ug/L			04/01/13 20:28	1
Chloromethane	ND		1.00	ug/L			04/01/13 20:28	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
Dibromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 20:28	1
Ethylbenzene	143		1.00	ug/L			04/01/13 20:28	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 20:28	1
Isopropylbenzene	3.35		1.00	ug/L			04/01/13 20:28	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 20:28	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 20:28	1
Naphthalene	1130		50.0	ug/L			04/03/13 00:19	10
n-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
N-Propylbenzene	1.86		1.00	ug/L			04/01/13 20:28	1
p-Isopropyltoluene	1.90		1.00	ug/L			04/01/13 20:28	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
Styrene	50.2		1.00	ug/L			04/01/13 20:28	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 20:28	1
Toluene	567		10.0	ug/L			04/03/13 00:19	10
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
Trichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 20:28	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 20:28	1
Xylenes, Total	672		30.0	ug/L			04/03/13 00:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/01/13 20:28	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/03/13 00:19	10
4-Bromofluorobenzene (Surr)	94		70 - 130		04/01/13 20:28	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/03/13 00:19	10
Dibromofluoromethane (Surr)	104		70 - 130		04/01/13 20:28	1
Dibromofluoromethane (Surr)	102		70 - 130		04/03/13 00:19	10
Toluene-d8 (Surr)	96		70 - 130		04/01/13 20:28	1
Toluene-d8 (Surr)	95		70 - 130		04/03/13 00:19	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12.4		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Acenaphthylene	10.4		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Fluorene	4.38		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45		29 - 120	03/30/13 14:44	04/02/13 23:48	1
Terphenyl-d14 (Surr)	50		13 - 120	03/30/13 14:44	04/02/13 23:48	1
Nitrobenzene-d5 (Surr)	45		27 - 120	03/30/13 14:44	04/02/13 23:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	4500		500	ug/L			04/03/13 04:09	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	96		50 - 150				04/03/13 04:09	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6600		467	ug/L		03/30/13 13:37	04/02/13 00:24	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	214	X	50 - 150			03/30/13 13:37	04/02/13 00:24	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4260		100	mg/L			04/06/13 19:20	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.110		0.100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Chromium	0.0155		0.00500	mg/L		04/02/13 12:54	04/03/13 18:28	1
Copper	0.0228		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Iron	0.699		0.100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 18:28	1
Manganese	2.70		0.0150	mg/L		04/02/13 12:54	04/03/13 18:28	1
Selenium	0.0110		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 22:31	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 22:31	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,4-Trimethylbenzene	1.36		1.00	ug/L			04/02/13 22:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 22:31	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 22:31	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:31	1
2-Hexanone	ND		10.0	ug/L			04/02/13 22:31	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 22:31	1
Acetone	59.8		50.0	ug/L			04/02/13 22:31	1
Benzene	4.32		1.00	ug/L			04/02/13 22:31	1
Bromobenzene	ND		1.00	ug/L			04/02/13 22:31	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 22:31	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 22:31	1
Bromoform	ND		1.00	ug/L			04/02/13 22:31	1
Bromomethane	5.16		1.00	ug/L			04/02/13 22:31	1
Carbon disulfide	10.1		1.00	ug/L			04/02/13 22:31	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 22:31	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 22:31	1
Chloroethane	ND		1.00	ug/L			04/02/13 22:31	1
Chloroform	ND		1.00	ug/L			04/02/13 22:31	1
Chloromethane	9.43		1.00	ug/L			04/02/13 22:31	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
Dibromomethane	ND		1.00	ug/L			04/02/13 22:31	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 22:31	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 22:31	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 22:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 22:31	1
Naphthalene	167		5.00	ug/L			04/02/13 22:31	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 22:31	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Styrene	ND		1.00	ug/L			04/02/13 22:31	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 22:31	1
Toluene	3.06		1.00	ug/L			04/02/13 22:31	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
Trichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 22:31	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 22:31	1
Xylenes, Total	3.11		3.00	ug/L			04/02/13 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				04/02/13 22:31	1
4-Bromofluorobenzene (Surr)	98		70 - 130				04/02/13 22:31	1
Dibromofluoromethane (Surr)	102		70 - 130				04/02/13 22:31	1
Toluene-d8 (Surr)	94		70 - 130				04/02/13 22:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.01		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Phenanthrene	9.30		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Fluorene	4.05		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Naphthalene	63.3		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		29 - 120			03/30/13 14:44	04/03/13 16:15	1
Terphenyl-d14 (Surr)	51		13 - 120			03/30/13 14:44	04/03/13 16:15	1
Nitrobenzene-d5 (Surr)	44		27 - 120			03/30/13 14:44	04/03/13 16:15	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 00:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150		04/03/13 00:07	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1130		198	ug/L	-	03/30/13 13:37	04/02/13 00:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	113		50 - 150	03/30/13 13:37	04/02/13 00:40	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5350		100	mg/L	-		04/06/13 19:39	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.79		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Chromium	0.0663		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Copper	0.155		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Iron	0.433		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Lead	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Manganese	5.22		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:04	1
Selenium	0.0116		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:04	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 21:36	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 21:36	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 21:36	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 21:36	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:36	1
2-Hexanone	ND		10.0	ug/L			04/02/13 21:36	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 21:36	1
Acetone	ND		50.0	ug/L			04/02/13 21:36	1
Benzene	1.81		1.00	ug/L			04/02/13 21:36	1
Bromobenzene	ND		1.00	ug/L			04/02/13 21:36	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 21:36	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 21:36	1
Bromoform	ND		1.00	ug/L			04/02/13 21:36	1
Bromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 21:36	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 21:36	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Chloroethane	ND		1.00	ug/L			04/02/13 21:36	1
Chloroform	ND		1.00	ug/L			04/02/13 21:36	1
Chloromethane	ND		1.00	ug/L			04/02/13 21:36	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
Dibromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 21:36	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 21:36	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 21:36	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 21:36	1
Naphthalene	6.68		5.00	ug/L			04/02/13 21:36	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 21:36	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Styrene	ND		1.00	ug/L			04/02/13 21:36	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 21:36	1
Toluene	1.50		1.00	ug/L			04/02/13 21:36	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
Trichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 21:36	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 21:36	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/02/13 21:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/02/13 21:36	1
Dibromofluoromethane (Surr)	106		70 - 130		04/02/13 21:36	1
Toluene-d8 (Surr)	95		70 - 130		04/02/13 21:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	39		29 - 120	03/30/13 14:44	04/03/13 00:10	1
Terphenyl-d14 (Surr)	42		13 - 120	03/30/13 14:44	04/03/13 00:10	1
Nitrobenzene-d5 (Surr)	39		27 - 120	03/30/13 14:44	04/03/13 00:10	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 00:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W
Date Collected: 03/27/13 11:50
Date Received: 03/29/13 08:00

Lab Sample ID: 490-23087-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 00:37	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	779		100	ug/L		03/30/13 13:37	04/01/13 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150	03/30/13 13:37	04/01/13 15:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1760		50.0	mg/L			04/06/13 19:58	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.117		0.100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Arsenic	0.0121		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:08	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Iron	0.149		0.100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:08	1
Manganese	7.51		0.0150	mg/L		04/02/13 12:54	04/03/13 17:08	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W

Lab Sample ID: 490-23087-6

Date Collected: 03/27/13 12:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 21:49	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 21:49	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 21:49	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 21:49	1
2-Hexanone	ND		10.0	ug/L			04/01/13 21:49	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 21:49	1
Acetone	146		50.0	ug/L			04/01/13 21:49	1
Benzene	ND		1.00	ug/L			04/01/13 21:49	1
Bromobenzene	ND		1.00	ug/L			04/01/13 21:49	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 21:49	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 21:49	1
Bromoform	ND		1.00	ug/L			04/01/13 21:49	1
Bromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Carbon disulfide	4.94		1.00	ug/L			04/01/13 21:49	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 21:49	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Chloroethane	ND		1.00	ug/L			04/01/13 21:49	1
Chloroform	1.78		1.00	ug/L			04/01/13 21:49	1
Chloromethane	12.1		1.00	ug/L			04/01/13 21:49	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
Dibromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 21:49	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 21:49	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 21:49	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W

Lab Sample ID: 490-23087-6

Date Collected: 03/27/13 12:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 21:49	1
Naphthalene	ND		5.00	ug/L			04/01/13 21:49	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 21:49	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Styrene	ND		1.00	ug/L			04/01/13 21:49	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 21:49	1
Toluene	ND		1.00	ug/L			04/01/13 21:49	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
Trichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 21:49	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 21:49	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/01/13 21:49	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/01/13 21:49	1
Dibromofluoromethane (Surr)	101		70 - 130		04/01/13 21:49	1
Toluene-d8 (Surr)	85		70 - 130		04/01/13 21:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Phenanthrene	15.8		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Fluorene	14.0		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Naphthalene	47.8		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120	03/30/13 14:44	04/03/13 16:38	1
Terphenyl-d14 (Surr)	53		13 - 120	03/30/13 14:44	04/03/13 16:38	1
Nitrobenzene-d5 (Surr)	52		27 - 120	03/30/13 14:44	04/03/13 16:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 01:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W
Date Collected: 03/27/13 12:55
Date Received: 03/29/13 08:00

Lab Sample ID: 490-23087-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 01:07	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2380		98.0	ug/L	-	03/30/13 13:37	04/01/13 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	96		50 - 150	03/30/13 13:37	04/01/13 15:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6170		200	mg/L	-		04/06/13 20:17	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.74		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Arsenic	0.0141		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Chromium	0.239		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Copper	0.0590		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Iron	2.25		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Lead	0.0139		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:12	1
Manganese	12.0		0.0300	mg/L	-	04/02/13 12:54	04/04/13 10:23	2
Selenium	0.0276		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:12	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 21:09	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 21:09	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 21:09	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 21:09	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:09	1
2-Hexanone	ND		10.0	ug/L			04/02/13 21:09	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 21:09	1
Acetone	82.6		50.0	ug/L			04/02/13 21:09	1
Benzene	ND		1.00	ug/L			04/02/13 21:09	1
Bromobenzene	ND		1.00	ug/L			04/02/13 21:09	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 21:09	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 21:09	1
Bromoform	ND		1.00	ug/L			04/02/13 21:09	1
Bromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 21:09	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 21:09	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Chloroethane	ND		1.00	ug/L			04/02/13 21:09	1
Chloroform	ND		1.00	ug/L			04/02/13 21:09	1
Chloromethane	ND		1.00	ug/L			04/02/13 21:09	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
Dibromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 21:09	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 21:09	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 21:09	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 21:09	1
Naphthalene	10.5		5.00	ug/L			04/02/13 21:09	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 21:09	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Styrene	ND		1.00	ug/L			04/02/13 21:09	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 21:09	1
Toluene	ND		1.00	ug/L			04/02/13 21:09	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
Trichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 21:09	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 21:09	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130				04/02/13 21:09	1
4-Bromofluorobenzene (Surr)	100		70 - 130				04/02/13 21:09	1
Dibromofluoromethane (Surr)	56	X	70 - 130				04/02/13 21:09	1
Toluene-d8 (Surr)	96		70 - 130				04/02/13 21:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Phenanthrene	17.4		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Fluorene	3.51		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Naphthalene	36.2		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120			03/30/13 14:44	04/03/13 17:01	1
Terphenyl-d14 (Surr)	60		13 - 120			03/30/13 14:44	04/03/13 17:01	1
Nitrobenzene-d5 (Surr)	54		27 - 120			03/30/13 14:44	04/03/13 17:01	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		04/03/13 01:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	854		100	ug/L	-	03/30/13 13:37	04/01/13 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	104		50 - 150	03/30/13 13:37	04/01/13 16:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	11400		200	mg/L	-		04/06/13 20:37	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	206		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Arsenic	0.162		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Chromium	1.10		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Copper	0.0102		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Iron	0.437		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Lead	0.0426		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Manganese	0.0220		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:15	1
Selenium	0.0235		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:15	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 22:43	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 22:43	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 22:43	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 22:43	1
2-Hexanone	ND		10.0	ug/L			04/01/13 22:43	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 22:43	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 22:43	1
Acetone	ND		50.0	ug/L			04/01/13 22:43	1
Benzene	ND		1.00	ug/L			04/01/13 22:43	1
Bromobenzene	ND		1.00	ug/L			04/01/13 22:43	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 22:43	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 22:43	1
Bromoform	ND		1.00	ug/L			04/01/13 22:43	1
Bromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 22:43	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 22:43	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Chloroethane	ND		1.00	ug/L			04/01/13 22:43	1
Chloroform	ND		1.00	ug/L			04/01/13 22:43	1
Chloromethane	ND		1.00	ug/L			04/01/13 22:43	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
Dibromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 22:43	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 22:43	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 22:43	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 22:43	1
Naphthalene	5.85		5.00	ug/L			04/01/13 22:43	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 22:43	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Styrene	ND		1.00	ug/L			04/01/13 22:43	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 22:43	1
Toluene	ND		1.00	ug/L			04/01/13 22:43	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
Trichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 22:43	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 22:43	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/01/13 22:43	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/01/13 22:43	1
Dibromofluoromethane (Surr)	101		70 - 130		04/01/13 22:43	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 22:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120	03/30/13 14:44	04/03/13 00:33	1
Terphenyl-d14 (Surr)	46		13 - 120	03/30/13 14:44	04/03/13 00:33	1
Nitrobenzene-d5 (Surr)	42		27 - 120	03/30/13 14:44	04/03/13 00:33	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 02:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 02:08	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	592		100	ug/L	-	03/30/13 13:37	04/01/13 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	104		50 - 150	03/30/13 13:37	04/01/13 16:17	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	114		5.00	mg/L	-		04/06/13 20:56	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.484		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Chromium	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Iron	0.397		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Lead	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Manganese	0.580		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:19	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:19	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 17:46	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 17:46	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 17:46	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:46	1
2-Hexanone	ND		10.0	ug/L			04/01/13 17:46	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 17:46	1
Acetone	ND		50.0	ug/L			04/01/13 17:46	1
Benzene	ND		1.00	ug/L			04/01/13 17:46	1
Bromobenzene	ND		1.00	ug/L			04/01/13 17:46	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 17:46	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 17:46	1
Bromoform	ND		1.00	ug/L			04/01/13 17:46	1
Bromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 17:46	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 17:46	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Chloroethane	ND		1.00	ug/L			04/01/13 17:46	1
Chloroform	ND		1.00	ug/L			04/01/13 17:46	1
Chloromethane	ND		1.00	ug/L			04/01/13 17:46	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
Dibromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 17:46	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 17:46	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 17:46	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 17:46	1
Naphthalene	ND		5.00	ug/L			04/01/13 17:46	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 17:46	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Styrene	ND		1.00	ug/L			04/01/13 17:46	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 17:46	1
Toluene	ND		1.00	ug/L			04/01/13 17:46	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
Trichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 17:46	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 17:46	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 17:46	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/01/13 17:46	1
Dibromofluoromethane (Surr)	105		70 - 130		04/01/13 17:46	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 17:46	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 23:11	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,4-Trimethylbenzene	36.5		1.00	ug/L			04/01/13 23:11	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 23:11	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,3,5-Trimethylbenzene	7.02		1.00	ug/L			04/01/13 23:11	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 23:11	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:11	1
2-Hexanone	ND		10.0	ug/L			04/01/13 23:11	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 23:11	1
Acetone	174		50.0	ug/L			04/01/13 23:11	1
Benzene	12.8		1.00	ug/L			04/01/13 23:11	1
Bromobenzene	ND		1.00	ug/L			04/01/13 23:11	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 23:11	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 23:11	1
Bromoform	ND		1.00	ug/L			04/01/13 23:11	1
Bromomethane	1.30		1.00	ug/L			04/01/13 23:11	1
Carbon disulfide	16.4		1.00	ug/L			04/01/13 23:11	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 23:11	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 23:11	1
Chloroethane	ND		1.00	ug/L			04/01/13 23:11	1
Chloroform	ND		1.00	ug/L			04/01/13 23:11	1
Chloromethane	4.19		1.00	ug/L			04/01/13 23:11	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
Dibromomethane	ND		1.00	ug/L			04/01/13 23:11	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 23:11	1
Ethylbenzene	42.5		1.00	ug/L			04/01/13 23:11	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 23:11	1
Isopropylbenzene	7.34		1.00	ug/L			04/01/13 23:11	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 23:11	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 23:11	1
Naphthalene	1480		250	ug/L			04/03/13 00:46	50
n-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
N-Propylbenzene	2.38		1.00	ug/L			04/01/13 23:11	1
p-Isopropyltoluene	1.26		1.00	ug/L			04/01/13 23:11	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
Styrene	ND		1.00	ug/L			04/01/13 23:11	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 23:11	1
Toluene	2.43		1.00	ug/L			04/01/13 23:11	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
Trichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 23:11	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 23:11	1
Xylenes, Total	44.0		3.00	ug/L			04/01/13 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/01/13 23:11	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/03/13 00:46	50
4-Bromofluorobenzene (Surr)	99		70 - 130		04/01/13 23:11	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/03/13 00:46	50
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 23:11	1
Dibromofluoromethane (Surr)	98		70 - 130		04/03/13 00:46	50
Toluene-d8 (Surr)	95		70 - 130		04/01/13 23:11	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 00:46	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	28.5		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Phenanthrene	10.4		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Fluorene	10.1		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Naphthalene	886		19.0	ug/L		03/30/13 14:44	04/04/13 20:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	41		29 - 120	03/30/13 14:44	04/03/13 00:56	1
Terphenyl-d14 (Surr)	37		13 - 120	03/30/13 14:44	04/03/13 00:56	1
Nitrobenzene-d5 (Surr)	43		27 - 120	03/30/13 14:44	04/03/13 00:56	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			04/03/13 04:39	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	95		50 - 150				04/03/13 04:39	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5810		990	ug/L		03/30/13 13:37	04/02/13 15:05	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	68		50 - 150			03/30/13 13:37	04/02/13 15:05	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	18700		500	mg/L			04/06/13 21:15	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.0		1.00	mg/L		04/02/13 12:54	04/04/13 10:27	10
Arsenic	ND		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10
Chromium	0.350		0.0500	mg/L		04/02/13 12:54	04/04/13 10:27	10
Copper	0.664		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10
Iron	2.58		1.00	mg/L		04/02/13 12:54	04/04/13 10:27	10
Lead	ND		0.0500	mg/L		04/02/13 12:54	04/04/13 10:27	10
Manganese	72.7		0.150	mg/L		04/02/13 12:54	04/04/13 10:27	10
Selenium	0.103		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 18:13	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 18:13	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 18:13	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:13	1
2-Hexanone	ND		10.0	ug/L			04/01/13 18:13	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 18:13	1
Acetone	ND		50.0	ug/L			04/01/13 18:13	1
Benzene	ND		1.00	ug/L			04/01/13 18:13	1
Bromobenzene	ND		1.00	ug/L			04/01/13 18:13	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 18:13	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 18:13	1
Bromoform	ND		1.00	ug/L			04/01/13 18:13	1
Bromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 18:13	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 18:13	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Chloroethane	ND		1.00	ug/L			04/01/13 18:13	1
Chloroform	ND		1.00	ug/L			04/01/13 18:13	1
Chloromethane	ND		1.00	ug/L			04/01/13 18:13	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
Dibromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 18:13	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 18:13	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 18:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 18:13	1
Naphthalene	ND		5.00	ug/L			04/01/13 18:13	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 18:13	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Styrene	ND		1.00	ug/L			04/01/13 18:13	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 18:13	1
Toluene	ND		1.00	ug/L			04/01/13 18:13	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
Trichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 18:13	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 18:13	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/01/13 18:13	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 18:13	1
Dibromofluoromethane (Surr)	102		70 - 130		04/01/13 18:13	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 18:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 23:38	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,4-Trimethylbenzene	31.0		1.00	ug/L			04/01/13 23:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 23:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,3,5-Trimethylbenzene	7.33		1.00	ug/L			04/01/13 23:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 23:38	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:38	1
2-Hexanone	ND		10.0	ug/L			04/01/13 23:38	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 23:38	1
Acetone	ND		50.0	ug/L			04/01/13 23:38	1
Benzene	7.04		1.00	ug/L			04/01/13 23:38	1
Bromobenzene	ND		1.00	ug/L			04/01/13 23:38	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 23:38	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 23:38	1
Bromoform	ND		1.00	ug/L			04/01/13 23:38	1
Bromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Carbon disulfide	4.49		1.00	ug/L			04/01/13 23:38	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 23:38	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Chloroethane	ND		1.00	ug/L			04/01/13 23:38	1
Chloroform	ND		1.00	ug/L			04/01/13 23:38	1
Chloromethane	ND		1.00	ug/L			04/01/13 23:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
Dibromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 23:38	1
Ethylbenzene	15.6		1.00	ug/L			04/01/13 23:38	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 23:38	1
Isopropylbenzene	5.27		1.00	ug/L			04/01/13 23:38	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 23:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 23:38	1
Naphthalene	464		25.0	ug/L			04/03/13 01:13	5
n-Butylbenzene	2.35		1.00	ug/L			04/01/13 23:38	1
N-Propylbenzene	2.51		1.00	ug/L			04/01/13 23:38	1
p-Isopropyltoluene	1.00		1.00	ug/L			04/01/13 23:38	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 23:38	1
Styrene	ND		1.00	ug/L			04/01/13 23:38	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 23:38	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 23:38	1
Toluene	ND		1.00	ug/L			04/01/13 23:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
Trichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 23:38	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 23:38	1
Xylenes, Total	12.7		3.00	ug/L			04/01/13 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/01/13 23:38	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/03/13 01:13	5
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 23:38	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/03/13 01:13	5
Dibromofluoromethane (Surr)	99		70 - 130		04/01/13 23:38	1
Dibromofluoromethane (Surr)	100		70 - 130		04/03/13 01:13	5
Toluene-d8 (Surr)	98		70 - 130		04/01/13 23:38	1
Toluene-d8 (Surr)	95		70 - 130		04/03/13 01:13	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	45.1		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Acenaphthylene	3.02		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Anthracene	3.58		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Pyrene	3.53		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Phenanthrene	11.1		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Fluoranthene	3.34		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Fluorene	17.5		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Naphthalene	12.2		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		29 - 120	03/30/13 14:44	04/03/13 01:18	1
Terphenyl-d14 (Surr)	61		13 - 120	03/30/13 14:44	04/03/13 01:18	1
Nitrobenzene-d5 (Surr)	58		27 - 120	03/30/13 14:44	04/03/13 01:18	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	165		100	ug/L			04/03/13 02:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	98		50 - 150				04/03/13 02:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3120		400	ug/L		03/30/13 13:37	04/02/13 15:21	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	76		50 - 150			03/30/13 13:37	04/02/13 15:21	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	432		10.0	mg/L			04/06/13 21:34	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.46		0.100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:39	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Iron	4.04		0.100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:39	1
Manganese	1.68		0.0150	mg/L		04/02/13 12:54	04/03/13 17:39	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 18:40	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 18:40	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 18:40	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:40	1
2-Hexanone	ND		10.0	ug/L			04/01/13 18:40	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 18:40	1
Acetone	ND		50.0	ug/L			04/01/13 18:40	1
Benzene	ND		1.00	ug/L			04/01/13 18:40	1
Bromobenzene	ND		1.00	ug/L			04/01/13 18:40	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 18:40	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 18:40	1
Bromoform	ND		1.00	ug/L			04/01/13 18:40	1
Bromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 18:40	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 18:40	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Chloroethane	ND		1.00	ug/L			04/01/13 18:40	1
Chloroform	ND		1.00	ug/L			04/01/13 18:40	1
Chloromethane	ND		1.00	ug/L			04/01/13 18:40	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
Dibromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 18:40	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 18:40	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 18:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 18:40	1
Naphthalene	ND		5.00	ug/L			04/01/13 18:40	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 18:40	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Styrene	ND		1.00	ug/L			04/01/13 18:40	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 18:40	1
Toluene	ND		1.00	ug/L			04/01/13 18:40	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
Trichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 18:40	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 18:40	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/01/13 18:40	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 18:40	1
Dibromofluoromethane (Surr)	102		70 - 130		04/01/13 18:40	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 18:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 22:03	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 22:03	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,4-Trimethylbenzene	9.08		1.00	ug/L			04/02/13 22:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 22:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,3,5-Trimethylbenzene	3.61		1.00	ug/L			04/02/13 22:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 22:03	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:03	1
2-Hexanone	ND		10.0	ug/L			04/02/13 22:03	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 22:03	1
Acetone	ND		50.0	ug/L			04/02/13 22:03	1
Benzene	ND		1.00	ug/L			04/02/13 22:03	1
Bromobenzene	ND		1.00	ug/L			04/02/13 22:03	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 22:03	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 22:03	1
Bromoform	ND		1.00	ug/L			04/02/13 22:03	1
Bromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 22:03	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 22:03	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Chloroethane	ND		1.00	ug/L			04/02/13 22:03	1
Chloroform	ND		1.00	ug/L			04/02/13 22:03	1
Chloromethane	ND		1.00	ug/L			04/02/13 22:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
Dibromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 22:03	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 22:03	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 22:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 22:03	1
Naphthalene	65.1		5.00	ug/L			04/02/13 22:03	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 22:03	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Styrene	ND		1.00	ug/L			04/02/13 22:03	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 22:03	1
Toluene	ND		1.00	ug/L			04/02/13 22:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
Trichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 22:03	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 22:03	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				04/02/13 22:03	1
4-Bromofluorobenzene (Surr)	94		70 - 130				04/02/13 22:03	1
Dibromofluoromethane (Surr)	105		70 - 130				04/02/13 22:03	1
Toluene-d8 (Surr)	96		70 - 130				04/02/13 22:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	8.54		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Pyrene	1.92		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120			03/30/13 14:44	04/03/13 01:41	1
Terphenyl-d14 (Surr)	56		13 - 120			03/30/13 14:44	04/03/13 01:41	1
Nitrobenzene-d5 (Surr)	55		27 - 120			03/30/13 14:44	04/03/13 01:41	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 03:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150		04/03/13 03:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	709		100	ug/L	-	03/30/13 13:37	04/01/13 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150	03/30/13 13:37	04/01/13 17:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	122		5.00	mg/L	-		04/06/13 21:53	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.843		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Chromium	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Iron	0.675		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Lead	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Manganese	2.23		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:42	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:42	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 00:32	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,4-Trimethylbenzene	3.41		1.00	ug/L			04/02/13 00:32	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 00:32	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 00:32	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:32	1
2-Hexanone	ND		10.0	ug/L			04/02/13 00:32	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:32	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 00:32	1
Acetone	130		50.0	ug/L			04/02/13 00:32	1
Benzene	ND		1.00	ug/L			04/02/13 00:32	1
Bromobenzene	ND		1.00	ug/L			04/02/13 00:32	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 00:32	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 00:32	1
Bromoform	ND		1.00	ug/L			04/02/13 00:32	1
Bromomethane	30.5		1.00	ug/L			04/02/13 00:32	1
Carbon disulfide	1.97		1.00	ug/L			04/02/13 00:32	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 00:32	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 00:32	1
Chloroethane	ND		1.00	ug/L			04/02/13 00:32	1
Chloroform	ND		1.00	ug/L			04/02/13 00:32	1
Chloromethane	36.9		1.00	ug/L			04/02/13 00:32	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
Dibromomethane	ND		1.00	ug/L			04/02/13 00:32	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 00:32	1
Ethylbenzene	4.12		1.00	ug/L			04/02/13 00:32	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 00:32	1
Isopropylbenzene	1.80		1.00	ug/L			04/02/13 00:32	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 00:32	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 00:32	1
Naphthalene	208		25.0	ug/L			04/03/13 01:40	5
n-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
N-Propylbenzene	1.00		1.00	ug/L			04/02/13 00:32	1
p-Isopropyltoluene	1.25		1.00	ug/L			04/02/13 00:32	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
Styrene	ND		1.00	ug/L			04/02/13 00:32	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 00:32	1
Toluene	ND		1.00	ug/L			04/02/13 00:32	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
Trichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 00:32	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 00:32	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130				04/02/13 00:32	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				04/03/13 01:40	5
4-Bromofluorobenzene (Surr)	102		70 - 130				04/02/13 00:32	1
4-Bromofluorobenzene (Surr)	98		70 - 130				04/03/13 01:40	5
Dibromofluoromethane (Surr)	98		70 - 130				04/02/13 00:32	1
Dibromofluoromethane (Surr)	104		70 - 130				04/03/13 01:40	5
Toluene-d8 (Surr)	96		70 - 130				04/02/13 00:32	1
Toluene-d8 (Surr)	94		70 - 130				04/03/13 01:40	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	23.2		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Phenanthrene	20.1		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Fluoranthene	2.36		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Fluorene	10.7		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Naphthalene	75.1		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120			03/30/13 14:44	04/03/13 17:24	1
Terphenyl-d14 (Surr)	45		13 - 120			03/30/13 14:44	04/03/13 17:24	1
Nitrobenzene-d5 (Surr)	39		27 - 120			03/30/13 14:44	04/03/13 17:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 03:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	98		50 - 150				04/03/13 03:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1620		200	ug/L		03/30/13 13:37	04/02/13 13:54	2
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	121		50 - 150			03/30/13 13:37	04/02/13 13:54	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2660		100	mg/L			04/09/13 21:33	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3		10.0	mg/L		04/02/13 12:54	04/04/13 10:31	100
Arsenic	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100
Chromium	ND		0.500	mg/L		04/02/13 12:54	04/04/13 10:31	100
Copper	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100
Iron	ND		10.0	mg/L		04/02/13 12:54	04/04/13 10:31	100
Lead	ND		0.500	mg/L		04/02/13 12:54	04/04/13 10:31	100
Manganese	7.43		1.50	mg/L		04/02/13 12:54	04/04/13 10:31	100
Selenium	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 19:07	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 19:07	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 19:07	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:07	1
2-Hexanone	ND		10.0	ug/L			04/01/13 19:07	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 19:07	1
Acetone	ND		50.0	ug/L			04/01/13 19:07	1
Benzene	ND		1.00	ug/L			04/01/13 19:07	1
Bromobenzene	ND		1.00	ug/L			04/01/13 19:07	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 19:07	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 19:07	1
Bromoform	ND		1.00	ug/L			04/01/13 19:07	1
Bromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 19:07	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 19:07	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Chloroethane	ND		1.00	ug/L			04/01/13 19:07	1
Chloroform	ND		1.00	ug/L			04/01/13 19:07	1
Chloromethane	ND		1.00	ug/L			04/01/13 19:07	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
Dibromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 19:07	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 19:07	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 19:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 19:07	1
Naphthalene	ND		5.00	ug/L			04/01/13 19:07	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 19:07	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Styrene	ND		1.00	ug/L			04/01/13 19:07	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 19:07	1
Toluene	ND		1.00	ug/L			04/01/13 19:07	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
Trichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 19:07	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 19:07	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 19:07	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 19:07	1
Dibromofluoromethane (Surr)	101		70 - 130		04/01/13 19:07	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 19:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 19:34	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 19:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 19:34	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:34	1
2-Hexanone	ND		10.0	ug/L			04/01/13 19:34	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 19:34	1
Acetone	ND		50.0	ug/L			04/01/13 19:34	1
Benzene	ND		1.00	ug/L			04/01/13 19:34	1
Bromobenzene	ND		1.00	ug/L			04/01/13 19:34	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 19:34	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 19:34	1
Bromoform	ND		1.00	ug/L			04/01/13 19:34	1
Bromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 19:34	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 19:34	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Chloroethane	ND		1.00	ug/L			04/01/13 19:34	1
Chloroform	ND		1.00	ug/L			04/01/13 19:34	1
Chloromethane	ND		1.00	ug/L			04/01/13 19:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
Dibromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 19:34	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 19:34	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 19:34	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 19:34	1
Naphthalene	ND		5.00	ug/L			04/01/13 19:34	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 19:34	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Styrene	ND		1.00	ug/L			04/01/13 19:34	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 19:34	1
Toluene	ND		1.00	ug/L			04/01/13 19:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
Trichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 19:34	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 19:34	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 19:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130				04/01/13 19:34	1
4-Bromofluorobenzene (Surr)	100		70 - 130				04/01/13 19:34	1
Dibromofluoromethane (Surr)	104		70 - 130				04/01/13 19:34	1
Toluene-d8 (Surr)	96		70 - 130				04/01/13 19:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 00:59	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,4-Trimethylbenzene	1.14		1.00	ug/L			04/02/13 00:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 00:59	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
2-Butanone (MEK)	73.2		50.0	ug/L			04/02/13 00:59	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:59	1
2-Hexanone	ND		10.0	ug/L			04/02/13 00:59	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 00:59	1
Acetone	881		50.0	ug/L			04/02/13 00:59	1
Benzene	1.59		1.00	ug/L			04/02/13 00:59	1
Bromobenzene	ND		1.00	ug/L			04/02/13 00:59	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 00:59	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 00:59	1
Bromoform	ND		1.00	ug/L			04/02/13 00:59	1
Bromomethane	51.4		1.00	ug/L			04/02/13 00:59	1
Carbon disulfide	2.80		1.00	ug/L			04/02/13 00:59	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 00:59	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 00:59	1
Chloroethane	ND		1.00	ug/L			04/02/13 00:59	1
Chloroform	ND		1.00	ug/L			04/02/13 00:59	1
Chloromethane	75.3		1.00	ug/L			04/02/13 00:59	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
Dibromomethane	ND		1.00	ug/L			04/02/13 00:59	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 00:59	1
Ethylbenzene	5.30		1.00	ug/L			04/02/13 00:59	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 00:59	1
Isopropylbenzene	2.31		1.00	ug/L			04/02/13 00:59	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 00:59	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 00:59	1
Naphthalene	226		25.0	ug/L			04/03/13 02:08	5
n-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
N-Propylbenzene	1.10		1.00	ug/L			04/02/13 00:59	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 00:59	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
Styrene	ND		1.00	ug/L			04/02/13 00:59	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 00:59	1
Toluene	ND		1.00	ug/L			04/02/13 00:59	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
Trichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 00:59	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 00:59	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/02/13 00:59	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/03/13 02:08	5
4-Bromofluorobenzene (Surr)	101		70 - 130		04/02/13 00:59	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/03/13 02:08	5
Dibromofluoromethane (Surr)	100		70 - 130		04/02/13 00:59	1
Dibromofluoromethane (Surr)	101		70 - 130		04/03/13 02:08	5
Toluene-d8 (Surr)	97		70 - 130		04/02/13 00:59	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 02:08	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.95		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Phenanthrene	14.7		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Fluorene	7.09		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Naphthalene	73.4		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120	03/30/13 14:44	04/03/13 17:47	1
Terphenyl-d14 (Surr)	48		13 - 120	03/30/13 14:44	04/03/13 17:47	1
Nitrobenzene-d5 (Surr)	41		27 - 120	03/30/13 14:44	04/03/13 17:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 01:52	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>106</i>		<i>50 - 150</i>				<i>04/02/13 01:52</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1760		100	ug/L		03/30/13 13:37	04/01/13 17:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>102</i>		<i>50 - 150</i>			<i>03/30/13 13:37</i>	<i>04/01/13 17:38</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	16200		500	mg/L			04/06/13 23:09	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14.8		0.100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Arsenic	0.0258		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Chromium	1.13		0.00500	mg/L		04/02/13 12:54	04/03/13 17:50	1
Copper	0.0223		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Iron	ND		0.100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:50	1
Manganese	1.84		0.0150	mg/L		04/02/13 12:54	04/03/13 17:50	1
Selenium	0.0683		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 06:50	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 06:50	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 06:50	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 06:50	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:50	1
2-Hexanone	ND		10.0	ug/L			04/02/13 06:50	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 06:50	1
Acetone	ND		50.0	ug/L			04/02/13 06:50	1
Benzene	ND		1.00	ug/L			04/02/13 06:50	1
Bromobenzene	ND		1.00	ug/L			04/02/13 06:50	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 06:50	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 06:50	1
Bromoform	ND		1.00	ug/L			04/02/13 06:50	1
Bromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 06:50	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 06:50	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Chloroethane	ND		1.00	ug/L			04/02/13 06:50	1
Chloroform	ND		1.00	ug/L			04/02/13 06:50	1
Chloromethane	ND		1.00	ug/L			04/02/13 06:50	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:50	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
Dibromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 06:50	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 06:50	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 06:50	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 06:50	1
Naphthalene	ND		5.00	ug/L			04/02/13 06:50	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 06:50	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Styrene	ND		1.00	ug/L			04/02/13 06:50	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 06:50	1
Toluene	ND		1.00	ug/L			04/02/13 06:50	1
trans-1,2-Dichloroethene	ND *		1.00	ug/L			04/02/13 06:50	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
Trichloroethene	ND		1.00	ug/L			04/02/13 06:50	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 06:50	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 06:50	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 06:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				04/02/13 06:50	1
4-Bromofluorobenzene (Surr)	101		70 - 130				04/02/13 06:50	1
Dibromofluoromethane (Surr)	102		70 - 130				04/02/13 06:50	1
Toluene-d8 (Surr)	95		70 - 130				04/02/13 06:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120			03/30/13 14:44	04/03/13 18:55	1
Terphenyl-d14 (Surr)	56		13 - 120			03/30/13 14:44	04/03/13 18:55	1
Nitrobenzene-d5 (Surr)	54		27 - 120			03/30/13 14:44	04/03/13 18:55	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 02:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		04/02/13 02:20	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	150		95.2	ug/L	-	03/30/13 13:37	04/01/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	68		50 - 150	03/30/13 13:37	04/01/13 17:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	237		5.00	mg/L	-		04/06/13 23:28	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.17		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Chromium	0.0301		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Iron	ND		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Lead	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Manganese	0.0952		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 07:17	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 07:17	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 07:17	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 07:17	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:17	1
2-Hexanone	ND		10.0	ug/L			04/02/13 07:17	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 07:17	1
Acetone	ND		50.0	ug/L			04/02/13 07:17	1
Benzene	ND		1.00	ug/L			04/02/13 07:17	1
Bromobenzene	ND		1.00	ug/L			04/02/13 07:17	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 07:17	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 07:17	1
Bromoform	ND		1.00	ug/L			04/02/13 07:17	1
Bromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 07:17	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 07:17	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Chloroethane	ND		1.00	ug/L			04/02/13 07:17	1
Chloroform	ND		1.00	ug/L			04/02/13 07:17	1
Chloromethane	ND		1.00	ug/L			04/02/13 07:17	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 07:17	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
Dibromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 07:17	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 07:17	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 07:17	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 07:17	1
Naphthalene	ND		5.00	ug/L			04/02/13 07:17	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 07:17	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Styrene	ND		1.00	ug/L			04/02/13 07:17	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 07:17	1
Toluene	ND		1.00	ug/L			04/02/13 07:17	1
trans-1,2-Dichloroethene	ND *		1.00	ug/L			04/02/13 07:17	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
Trichloroethene	ND		1.00	ug/L			04/02/13 07:17	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 07:17	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 07:17	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/02/13 07:17	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/02/13 07:17	1
Dibromofluoromethane (Surr)	103		70 - 130		04/02/13 07:17	1
Toluene-d8 (Surr)	97		70 - 130		04/02/13 07:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120	03/30/13 14:44	04/03/13 19:18	1
Terphenyl-d14 (Surr)	50		13 - 120	03/30/13 14:44	04/03/13 19:18	1
Nitrobenzene-d5 (Surr)	39		27 - 120	03/30/13 14:44	04/03/13 19:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 02:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		04/02/13 02:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	465		97.1	ug/L	-	03/30/13 13:37	04/01/13 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150	03/30/13 13:37	04/01/13 18:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	125		5.00	mg/L	-		04/06/13 23:47	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.24		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Chromium	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Iron	1.71		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Lead	0.0115		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Manganese	1.03		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,1-Trichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,1,2,2-Tetrachloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,1,2-Trichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1-Dichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
Diisopropyl ether	ND		40.0	ug/L			04/03/13 20:14	20
1,1-Dichloroethene	ND	*	20.0	ug/L			04/03/13 20:14	20
1,1-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,3-Trichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,3-Trichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,2,4-Trichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,4-Trimethylbenzene	437		20.0	ug/L			04/03/13 20:14	20
1,2-Dibromo-3-Chloropropane	ND		200	ug/L			04/03/13 20:14	20
1,2-Dibromoethane (EDB)	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,3,5-Trimethylbenzene	142		20.0	ug/L			04/03/13 20:14	20
1,3-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,3-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,4-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
2,2-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
2-Butanone (MEK)	ND		1000	ug/L			04/03/13 20:14	20
2-Chlorotoluene	ND		20.0	ug/L			04/03/13 20:14	20
2-Hexanone	ND		200	ug/L			04/03/13 20:14	20
4-Chlorotoluene	ND		20.0	ug/L			04/03/13 20:14	20
4-Methyl-2-pentanone (MIBK)	ND		200	ug/L			04/03/13 20:14	20
Acetone	ND		1000	ug/L			04/03/13 20:14	20
Benzene	34.5		20.0	ug/L			04/03/13 20:14	20
Bromobenzene	ND		20.0	ug/L			04/03/13 20:14	20
Bromochloromethane	ND		20.0	ug/L			04/03/13 20:14	20
Bromodichloromethane	ND		20.0	ug/L			04/03/13 20:14	20
Bromoform	ND		20.0	ug/L			04/03/13 20:14	20
Bromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Carbon disulfide	ND		20.0	ug/L			04/03/13 20:14	20
Carbon tetrachloride	ND		20.0	ug/L			04/03/13 20:14	20
Chlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
Chlorodibromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Chloroethane	ND		20.0	ug/L			04/03/13 20:14	20
Chloroform	ND		20.0	ug/L			04/03/13 20:14	20
Chloromethane	ND		20.0	ug/L			04/03/13 20:14	20
cis-1,2-Dichloroethene	26.2		20.0	ug/L			04/03/13 20:14	20
cis-1,3-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
Dibromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Dichlorodifluoromethane	ND		20.0	ug/L			04/03/13 20:14	20
Ethylbenzene	124		20.0	ug/L			04/03/13 20:14	20
Hexachlorobutadiene	ND		40.0	ug/L			04/03/13 20:14	20
Isopropylbenzene	34.9		20.0	ug/L			04/03/13 20:14	20
Methyl tert-butyl ether	ND		20.0	ug/L			04/03/13 20:14	20

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		100	ug/L			04/03/13 20:14	20
Naphthalene	3040		100	ug/L			04/09/13 02:33	20
n-Butylbenzene	44.5		20.0	ug/L			04/03/13 20:14	20
N-Propylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
p-Isopropyltoluene	21.9		20.0	ug/L			04/03/13 20:14	20
sec-Butylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
Styrene	ND		20.0	ug/L			04/03/13 20:14	20
tert-Butylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
Tetrachloroethene	ND		20.0	ug/L			04/03/13 20:14	20
Toluene	77.5		20.0	ug/L			04/03/13 20:14	20
trans-1,2-Dichloroethene	ND		20.0	ug/L			04/03/13 20:14	20
trans-1,3-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
Trichloroethene	ND		20.0	ug/L			04/09/13 02:33	20
Trichlorofluoromethane	ND		20.0	ug/L			04/03/13 20:14	20
Vinyl chloride	ND		20.0	ug/L			04/03/13 20:14	20
Xylenes, Total	277		60.0	ug/L			04/03/13 20:14	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/03/13 20:14	20
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/09/13 02:33	20
4-Bromofluorobenzene (Surr)	98		70 - 130		04/03/13 20:14	20
4-Bromofluorobenzene (Surr)	103		70 - 130		04/09/13 02:33	20
Dibromofluoromethane (Surr)	89		70 - 130		04/03/13 20:14	20
Dibromofluoromethane (Surr)	95		70 - 130		04/09/13 02:33	20
Toluene-d8 (Surr)	105		70 - 130		04/03/13 20:14	20
Toluene-d8 (Surr)	94		70 - 130		04/09/13 02:33	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	879		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Acenaphthylene	79.0		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Anthracene	346		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Benzo[a]anthracene	176		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Benzo[a]pyrene	81.6		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[b]fluoranthene	80.5		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[g,h,i]perylene	45.3		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[k]fluoranthene	38.7		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Pyrene	496		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Phenanthrene	1400		38.1	ug/L		03/30/13 14:44	04/04/13 20:35	20
Chrysene	87.7		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Dibenz(a,h)anthracene	8.84		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Fluoranthene	424		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Fluorene	514		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Indeno[1,2,3-cd]pyrene	37.6		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Naphthalene	1370		38.1	ug/L		03/30/13 14:44	04/04/13 20:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120	03/30/13 14:44	04/03/13 18:09	1
Terphenyl-d14 (Surr)	35		13 - 120	03/30/13 14:44	04/03/13 18:09	1
Nitrobenzene-d5 (Surr)	51		27 - 120	03/30/13 14:44	04/03/13 18:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	2220		1000	ug/L			04/02/13 16:46	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	118		50 - 150				04/02/13 16:46	10

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	109000		10000	ug/L		03/30/13 13:37	04/02/13 15:37	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	7367	X	50 - 150			03/30/13 13:37	04/02/13 15:37	100

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	19900		500	mg/L			04/07/13 00:06	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	583		1.00	mg/L		04/05/13 08:31	04/05/13 16:01	10
Arsenic	0.616		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10
Chromium	3.10		0.0500	mg/L		04/05/13 08:31	04/05/13 16:01	10
Copper	ND		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10
Iron	25.2		1.00	mg/L		04/05/13 08:31	04/05/13 16:01	10
Lead	0.0650		0.0500	mg/L		04/05/13 08:31	04/05/13 16:01	10
Manganese	5.75		0.150	mg/L		04/05/13 08:31	04/05/13 16:01	10
Selenium	0.125		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	100000	E	10.0	umhos/cm			04/06/13 15:14	1
Oxidation Reduction Potential	430	H	3.00	mV vs. NHE			04/10/13 15:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 07:44	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 07:44	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,4-Trimethylbenzene	80.5		1.00	ug/L			04/02/13 07:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 07:44	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 07:44	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2-Dichloroethane	2.71		1.00	ug/L			04/02/13 07:44	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,3,5-Trimethylbenzene	27.6		1.00	ug/L			04/02/13 07:44	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 07:44	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:44	1
2-Hexanone	ND		10.0	ug/L			04/02/13 07:44	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 07:44	1
Acetone	ND		50.0	ug/L			04/02/13 07:44	1
Benzene	101		1.00	ug/L			04/02/13 07:44	1
Bromobenzene	ND		1.00	ug/L			04/02/13 07:44	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 07:44	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 07:44	1
Bromoform	ND		1.00	ug/L			04/02/13 07:44	1
Bromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Carbon disulfide	1.42		1.00	ug/L			04/02/13 07:44	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 07:44	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Chloroethane	ND		1.00	ug/L			04/02/13 07:44	1
Chloroform	ND		1.00	ug/L			04/02/13 07:44	1
Chloromethane	ND		1.00	ug/L			04/02/13 07:44	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 07:44	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
Dibromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 07:44	1
Ethylbenzene	37.7		1.00	ug/L			04/02/13 07:44	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 07:44	1
Isopropylbenzene	9.24		1.00	ug/L			04/02/13 07:44	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 07:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 07:44	1
Naphthalene	379		50.0	ug/L			04/03/13 03:29	10
n-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
N-Propylbenzene	3.97		1.00	ug/L			04/02/13 07:44	1
p-Isopropyltoluene	4.12		1.00	ug/L			04/02/13 07:44	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
Styrene	ND		1.00	ug/L			04/02/13 07:44	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 07:44	1
Toluene	15.8		1.00	ug/L			04/02/13 07:44	1
trans-1,2-Dichloroethene	ND *		1.00	ug/L			04/02/13 07:44	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
Trichloroethene	ND		1.00	ug/L			04/02/13 07:44	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 07:44	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 07:44	1
Xylenes, Total	63.3		3.00	ug/L			04/02/13 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/02/13 07:44	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/03/13 03:29	10
4-Bromofluorobenzene (Surr)	93		70 - 130		04/02/13 07:44	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/03/13 03:29	10
Dibromofluoromethane (Surr)	105		70 - 130		04/02/13 07:44	1
Dibromofluoromethane (Surr)	104		70 - 130		04/03/13 03:29	10
Toluene-d8 (Surr)	96		70 - 130		04/02/13 07:44	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 03:29	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36.0		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Acenaphthylene	7.72		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Anthracene	15.3		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[a]anthracene	9.36		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[a]pyrene	7.60		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[b]fluoranthene	7.78		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[g,h,i]perylene	3.70		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[k]fluoranthene	3.11		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Pyrene	26.4		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Phenanthrene	48.7		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Chrysene	8.34		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Fluoranthene	23.5		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Fluorene	20.2		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Indeno[1,2,3-cd]pyrene	3.09		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	38		29 - 120	03/30/13 14:44	04/03/13 19:41	1
Terphenyl-d14 (Surr)	34		13 - 120	03/30/13 14:44	04/03/13 19:41	1
Nitrobenzene-d5 (Surr)	36		27 - 120	03/30/13 14:44	04/03/13 19:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			04/03/13 05:10	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	95		50 - 150				04/03/13 05:10	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	36900		5000	ug/L		03/30/13 13:37	04/02/13 14:26	50
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	2577	X	50 - 150			03/30/13 13:37	04/02/13 14:26	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	848		20.0	mg/L			04/07/13 00:25	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.07		0.100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Arsenic	0.0173		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Chromium	0.0158		0.00500	mg/L		04/02/13 12:54	04/03/13 18:00	1
Copper	0.0190		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Iron	13.1		0.100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Lead	0.00980		0.00500	mg/L		04/02/13 12:54	04/03/13 18:00	1
Manganese	8.31		0.0150	mg/L		04/02/13 12:54	04/03/13 18:00	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 20:01	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 20:01	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 20:01	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:01	1
2-Hexanone	ND		10.0	ug/L			04/01/13 20:01	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:01	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 20:01	1
Acetone	ND		50.0	ug/L			04/01/13 20:01	1
Benzene	ND		1.00	ug/L			04/01/13 20:01	1
Bromobenzene	ND		1.00	ug/L			04/01/13 20:01	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 20:01	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 20:01	1
Bromoform	ND		1.00	ug/L			04/01/13 20:01	1
Bromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 20:01	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 20:01	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Chloroethane	ND		1.00	ug/L			04/01/13 20:01	1
Chloroform	ND		1.00	ug/L			04/01/13 20:01	1
Chloromethane	ND		1.00	ug/L			04/01/13 20:01	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
Dibromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 20:01	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 20:01	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 20:01	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 20:01	1
Naphthalene	ND		5.00	ug/L			04/01/13 20:01	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 20:01	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Styrene	ND		1.00	ug/L			04/01/13 20:01	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 20:01	1
Toluene	ND		1.00	ug/L			04/01/13 20:01	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
Trichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 20:01	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 20:01	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/01/13 20:01	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 20:01	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 20:01	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 20:01	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-69277/7

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 16:24	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 16:24	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 16:24	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:24	1
2-Hexanone	ND		10.0	ug/L			04/01/13 16:24	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 16:24	1
Acetone	ND		50.0	ug/L			04/01/13 16:24	1
Benzene	ND		1.00	ug/L			04/01/13 16:24	1
Bromobenzene	ND		1.00	ug/L			04/01/13 16:24	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 16:24	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 16:24	1
Bromoform	ND		1.00	ug/L			04/01/13 16:24	1
Bromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 16:24	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 16:24	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Chloroethane	ND		1.00	ug/L			04/01/13 16:24	1
Chloroform	ND		1.00	ug/L			04/01/13 16:24	1
Chloromethane	ND		1.00	ug/L			04/01/13 16:24	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
Dibromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 16:24	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 16:24	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 16:24	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69277/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 16:24	1
Methylene Chloride	ND		5.00	ug/L			04/01/13 16:24	1
Naphthalene	ND		5.00	ug/L			04/01/13 16:24	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 16:24	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Styrene	ND		1.00	ug/L			04/01/13 16:24	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 16:24	1
Toluene	ND		1.00	ug/L			04/01/13 16:24	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
Trichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 16:24	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 16:24	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 16:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/01/13 16:24	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 16:24	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 16:24	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 16:24	1

Lab Sample ID: LCS 490-69277/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.28		ug/L		105	74 - 135
1,1,1-Trichloroethane	50.0	55.43		ug/L		111	78 - 135
1,1,2,2-Tetrachloroethane	50.0	53.62		ug/L		107	69 - 131
1,1,2-Trichloroethane	50.0	50.34		ug/L		101	80 - 124
1,1-Dichloroethane	50.0	53.62		ug/L		107	78 - 125
Diisopropyl ether	50.0	53.22		ug/L		106	61 - 142
1,1-Dichloroethene	50.0	59.10		ug/L		118	79 - 124
1,1-Dichloropropene	50.0	51.93		ug/L		104	80 - 122
1,2,3-Trichlorobenzene	50.0	58.90		ug/L		118	62 - 133
1,2,3-Trichloropropane	50.0	57.99		ug/L		116	70 - 131
1,2,4-Trichlorobenzene	50.0	57.58		ug/L		115	63 - 133
1,2,4-Trimethylbenzene	50.0	49.90		ug/L		100	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	59.01		ug/L		118	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.28		ug/L		109	80 - 129
1,2-Dichlorobenzene	50.0	52.36		ug/L		105	80 - 121
1,2-Dichloroethane	50.0	55.77		ug/L		112	77 - 121
1,2-Dichloropropane	50.0	48.29		ug/L		97	75 - 120
1,3,5-Trimethylbenzene	50.0	51.31		ug/L		103	77 - 127
1,3-Dichlorobenzene	50.0	50.09		ug/L		100	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69277/3

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.97		ug/L		104	80 - 125
1,4-Dichlorobenzene	50.0	50.40		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	58.38		ug/L		117	43 - 161
2-Butanone (MEK)	250	292.0		ug/L		117	62 - 133
2-Chlorotoluene	50.0	49.54		ug/L		99	75 - 126
2-Hexanone	250	274.7		ug/L		110	60 - 142
4-Chlorotoluene	50.0	50.37		ug/L		101	75 - 130
4-Methyl-2-pentanone (MIBK)	250	276.3		ug/L		111	60 - 137
Acetone	250	302.4		ug/L		121	54 - 145
Benzene	50.0	51.24		ug/L		102	80 - 121
Bromobenzene	50.0	53.34		ug/L		107	68 - 130
Bromochloromethane	50.0	53.55		ug/L		107	78 - 129
Bromodichloromethane	50.0	58.58		ug/L		117	75 - 129
Bromoform	50.0	60.00		ug/L		120	46 - 145
Bromomethane	50.0	50.15		ug/L		100	41 - 150
Carbon disulfide	50.0	48.06		ug/L		96	77 - 126
Carbon tetrachloride	50.0	57.75		ug/L		115	64 - 147
Chlorobenzene	50.0	49.51		ug/L		99	80 - 120
Chlorodibromomethane	50.0	57.39		ug/L		115	69 - 133
Chloroethane	50.0	46.59		ug/L		93	72 - 120
Chloroform	50.0	51.89		ug/L		104	73 - 129
Chloromethane	50.0	38.20		ug/L		76	12 - 150
cis-1,2-Dichloroethene	50.0	52.02		ug/L		104	76 - 125
cis-1,3-Dichloropropene	50.0	52.70		ug/L		105	74 - 140
Dibromomethane	50.0	55.02		ug/L		110	71 - 125
Dichlorodifluoromethane	50.0	55.22		ug/L		110	37 - 127
Ethylbenzene	50.0	51.88		ug/L		104	80 - 130
Hexachlorobutadiene	50.0	51.19		ug/L		102	49 - 146
Isopropylbenzene	50.0	52.46		ug/L		105	80 - 141
Methyl tert-butyl ether	50.0	58.64		ug/L		117	72 - 133
Methylene Chloride	50.0	51.51		ug/L		103	79 - 123
Naphthalene	50.0	62.36		ug/L		125	62 - 138
n-Butylbenzene	50.0	55.68		ug/L		111	68 - 132
N-Propylbenzene	50.0	49.51		ug/L		99	75 - 129
p-Isopropyltoluene	50.0	51.50		ug/L		103	75 - 128
sec-Butylbenzene	50.0	51.53		ug/L		103	76 - 128
Styrene	50.0	53.39		ug/L		107	80 - 127
tert-Butylbenzene	50.0	50.66		ug/L		101	76 - 126
Tetrachloroethene	50.0	50.69		ug/L		101	80 - 126
Toluene	50.0	49.75		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	56.60		ug/L		113	79 - 126
trans-1,3-Dichloropropene	50.0	53.87		ug/L		108	63 - 134
Trichloroethene	50.0	51.00		ug/L		102	80 - 123
Trichlorofluoromethane	50.0	51.87		ug/L		104	65 - 124
Vinyl chloride	50.0	47.41		ug/L		95	68 - 120
Xylenes, Total	150	154.4		ug/L		103	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69277/3

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-69277/4

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.15		ug/L		104	74 - 135	0	16
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	78 - 135	3	17
1,1,1,2-Tetrachloroethane	50.0	53.06		ug/L		106	69 - 131	1	20
1,1,2-Trichloroethane	50.0	50.12		ug/L		100	80 - 124	0	15
1,1-Dichloroethane	50.0	51.59		ug/L		103	78 - 125	4	17
Diisopropyl ether	50.0	52.07		ug/L		104	61 - 142	2	50
1,1-Dichloroethene	50.0	57.95		ug/L		116	79 - 124	2	17
1,1-Dichloropropene	50.0	50.87		ug/L		102	80 - 122	2	17
1,2,3-Trichlorobenzene	50.0	59.27		ug/L		119	62 - 133	1	25
1,2,3-Trichloropropane	50.0	56.35		ug/L		113	70 - 131	3	19
1,2,4-Trichlorobenzene	50.0	57.26		ug/L		115	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	49.39		ug/L		99	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	57.39		ug/L		115	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	53.73		ug/L		107	80 - 129	1	15
1,2-Dichlorobenzene	50.0	49.36		ug/L		99	80 - 121	6	15
1,2-Dichloroethane	50.0	53.65		ug/L		107	77 - 121	4	17
1,2-Dichloropropane	50.0	47.24		ug/L		94	75 - 120	2	17
1,3,5-Trimethylbenzene	50.0	50.00		ug/L		100	77 - 127	3	17
1,3-Dichlorobenzene	50.0	48.82		ug/L		98	80 - 122	3	15
1,3-Dichloropropane	50.0	51.26		ug/L		103	80 - 125	1	14
1,4-Dichlorobenzene	50.0	49.80		ug/L		100	80 - 120	1	15
2,2-Dichloropropane	50.0	55.88		ug/L		112	43 - 161	4	18
2-Butanone (MEK)	250	285.6		ug/L		114	62 - 133	2	19
2-Chlorotoluene	50.0	48.72		ug/L		97	75 - 126	2	17
2-Hexanone	250	280.2		ug/L		112	60 - 142	2	15
4-Chlorotoluene	50.0	49.43		ug/L		99	75 - 130	2	18
4-Methyl-2-pentanone (MIBK)	250	275.6		ug/L		110	60 - 137	0	17
Acetone	250	320.9		ug/L		128	54 - 145	6	21
Benzene	50.0	50.06		ug/L		100	80 - 121	2	17
Bromobenzene	50.0	52.12		ug/L		104	68 - 130	2	20
Bromochloromethane	50.0	51.70		ug/L		103	78 - 129	4	17
Bromodichloromethane	50.0	57.12		ug/L		114	75 - 129	3	18
Bromoform	50.0	58.79		ug/L		118	46 - 145	2	16
Bromomethane	50.0	49.10		ug/L		98	41 - 150	2	50
Carbon disulfide	50.0	46.34		ug/L		93	77 - 126	4	21
Carbon tetrachloride	50.0	56.05		ug/L		112	64 - 147	3	19
Chlorobenzene	50.0	48.76		ug/L		98	80 - 120	2	14
Chlorodibromomethane	50.0	56.82		ug/L		114	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69277/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	45.71		ug/L		91	72 - 120	2	20	
Chloroform	50.0	50.14		ug/L		100	73 - 129	3	18	
Chloromethane	50.0	35.23		ug/L		70	12 - 150	8	31	
cis-1,2-Dichloroethene	50.0	50.32		ug/L		101	76 - 125	3	17	
cis-1,3-Dichloropropene	50.0	52.29		ug/L		105	74 - 140	1	15	
Dibromomethane	50.0	52.45		ug/L		105	71 - 125	5	16	
Dichlorodifluoromethane	50.0	53.14		ug/L		106	37 - 127	4	18	
Ethylbenzene	50.0	50.30		ug/L		101	80 - 130	3	15	
Hexachlorobutadiene	50.0	51.12		ug/L		102	49 - 146	0	23	
Isopropylbenzene	50.0	51.00		ug/L		102	80 - 141	3	16	
Methyl tert-butyl ether	50.0	57.14		ug/L		114	72 - 133	3	16	
Methylene Chloride	50.0	49.50		ug/L		99	79 - 123	4	17	
Naphthalene	50.0	61.79		ug/L		124	62 - 138	1	26	
n-Butylbenzene	50.0	52.55		ug/L		105	68 - 132	6	18	
N-Propylbenzene	50.0	48.88		ug/L		98	75 - 129	1	17	
p-Isopropyltoluene	50.0	50.16		ug/L		100	75 - 128	3	16	
sec-Butylbenzene	50.0	50.46		ug/L		101	76 - 128	2	16	
Styrene	50.0	52.26		ug/L		105	80 - 127	2	24	
tert-Butylbenzene	50.0	49.87		ug/L		100	76 - 126	2	16	
Tetrachloroethene	50.0	49.58		ug/L		99	80 - 126	2	16	
Toluene	50.0	48.97		ug/L		98	80 - 126	2	15	
trans-1,2-Dichloroethene	50.0	54.54		ug/L		109	79 - 126	4	16	
trans-1,3-Dichloropropene	50.0	53.66		ug/L		107	63 - 134	0	14	
Trichloroethene	50.0	49.95		ug/L		100	80 - 123	2	17	
Trichlorofluoromethane	50.0	48.98		ug/L		98	65 - 124	6	18	
Vinyl chloride	50.0	45.59		ug/L		91	68 - 120	4	17	
Xylenes, Total	150	150.6		ug/L		100	80 - 132	3	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-69278/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 06:23	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69278/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 06:23	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 06:23	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:23	1
2-Hexanone	ND		10.0	ug/L			04/02/13 06:23	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:23	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 06:23	1
Acetone	ND		50.0	ug/L			04/02/13 06:23	1
Benzene	ND		1.00	ug/L			04/02/13 06:23	1
Bromobenzene	ND		1.00	ug/L			04/02/13 06:23	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 06:23	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 06:23	1
Bromoform	ND		1.00	ug/L			04/02/13 06:23	1
Bromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 06:23	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 06:23	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Chloroethane	ND		1.00	ug/L			04/02/13 06:23	1
Chloroform	ND		1.00	ug/L			04/02/13 06:23	1
Chloromethane	ND		1.00	ug/L			04/02/13 06:23	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
Dibromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 06:23	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 06:23	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 06:23	1
Methylene Chloride	ND		5.00	ug/L			04/02/13 06:23	1
Naphthalene	ND		5.00	ug/L			04/02/13 06:23	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 06:23	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Styrene	ND		1.00	ug/L			04/02/13 06:23	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69278/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			04/02/13 06:23	1
Toluene	ND		1.00	ug/L			04/02/13 06:23	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
Trichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 06:23	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 06:23	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 06:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/02/13 06:23	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/02/13 06:23	1
Dibromofluoromethane (Surr)	104		70 - 130		04/02/13 06:23	1
Toluene-d8 (Surr)	96		70 - 130		04/02/13 06:23	1

Lab Sample ID: LCS 490-69278/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.98		ug/L		110	74 - 135
1,1,1-Trichloroethane	50.0	61.60		ug/L		123	78 - 135
1,1,1,2,2-Tetrachloroethane	50.0	52.20		ug/L		104	69 - 131
1,1,2-Trichloroethane	50.0	51.23		ug/L		102	80 - 124
1,1-Dichloroethane	50.0	58.63		ug/L		117	78 - 125
Diisopropyl ether	50.0	55.31		ug/L		111	61 - 142
1,1-Dichloroethene	50.0	68.38	*	ug/L		137	79 - 124
1,1-Dichloropropene	50.0	58.94		ug/L		118	80 - 122
1,2,3-Trichlorobenzene	50.0	62.19		ug/L		124	62 - 133
1,2,3-Trichloropropane	50.0	56.55		ug/L		113	70 - 131
1,2,4-Trichlorobenzene	50.0	60.26		ug/L		121	63 - 133
1,2,4-Trimethylbenzene	50.0	53.96		ug/L		108	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	56.84		ug/L		114	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.19		ug/L		112	80 - 129
1,2-Dichlorobenzene	50.0	54.65		ug/L		109	80 - 121
1,2-Dichloroethane	50.0	57.31		ug/L		115	77 - 121
1,2-Dichloropropane	50.0	51.61		ug/L		103	75 - 120
1,3,5-Trimethylbenzene	50.0	55.55		ug/L		111	77 - 127
1,3-Dichlorobenzene	50.0	53.45		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	52.70		ug/L		105	80 - 125
1,4-Dichlorobenzene	50.0	53.67		ug/L		107	80 - 120
2,2-Dichloropropane	50.0	51.92		ug/L		104	43 - 161
2-Butanone (MEK)	250	279.5		ug/L		112	62 - 133
2-Chlorotoluene	50.0	53.36		ug/L		107	75 - 126
2-Hexanone	250	266.1		ug/L		106	60 - 142
4-Chlorotoluene	50.0	54.35		ug/L		109	75 - 130
4-Methyl-2-pentanone (MIBK)	250	267.4		ug/L		107	60 - 137
Acetone	250	280.8		ug/L		112	54 - 145

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69278/3

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	56.36		ug/L		113	80 - 121
Bromobenzene	50.0	54.98		ug/L		110	68 - 130
Bromochloromethane	50.0	56.81		ug/L		114	78 - 129
Bromodichloromethane	50.0	61.51		ug/L		123	75 - 129
Bromoform	50.0	58.66		ug/L		117	46 - 145
Bromomethane	50.0	58.59		ug/L		117	41 - 150
Carbon disulfide	50.0	54.52		ug/L		109	77 - 126
Carbon tetrachloride	50.0	64.12		ug/L		128	64 - 147
Chlorobenzene	50.0	53.98		ug/L		108	80 - 120
Chlorodibromomethane	50.0	58.13		ug/L		116	69 - 133
Chloroethane	50.0	53.67		ug/L		107	72 - 120
Chloroform	50.0	56.33		ug/L		113	73 - 129
Chloromethane	50.0	47.19		ug/L		94	12 - 150
cis-1,2-Dichloroethene	50.0	55.83		ug/L		112	76 - 125
cis-1,3-Dichloropropene	50.0	52.76		ug/L		106	74 - 140
Dibromomethane	50.0	56.59		ug/L		113	71 - 125
Dichlorodifluoromethane	50.0	62.13		ug/L		124	37 - 127
Ethylbenzene	50.0	56.65		ug/L		113	80 - 130
Hexachlorobutadiene	50.0	54.65		ug/L		109	49 - 146
Isopropylbenzene	50.0	57.89		ug/L		116	80 - 141
Methyl tert-butyl ether	50.0	58.33		ug/L		117	72 - 133
Methylene Chloride	50.0	53.93		ug/L		108	79 - 123
Naphthalene	50.0	62.29		ug/L		125	62 - 138
n-Butylbenzene	50.0	59.14		ug/L		118	68 - 132
N-Propylbenzene	50.0	54.13		ug/L		108	75 - 129
p-Isopropyltoluene	50.0	55.78		ug/L		112	75 - 128
sec-Butylbenzene	50.0	56.72		ug/L		113	76 - 128
Styrene	50.0	57.85		ug/L		116	80 - 127
tert-Butylbenzene	50.0	55.87		ug/L		112	76 - 126
Tetrachloroethene	50.0	56.26		ug/L		113	80 - 126
Toluene	50.0	54.60		ug/L		109	80 - 126
trans-1,2-Dichloroethene	50.0	62.31		ug/L		125	79 - 126
trans-1,3-Dichloropropene	50.0	53.16		ug/L		106	63 - 134
Trichloroethene	50.0	57.72		ug/L		115	80 - 123
Trichlorofluoromethane	50.0	58.10		ug/L		116	65 - 124
Vinyl chloride	50.0	54.60		ug/L		109	68 - 120
Xylenes, Total	150	167.6		ug/L		112	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69278/4

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	50.0	55.28		ug/L		111	74 - 135	1	16
1,1,1-Trichloroethane	50.0	62.33		ug/L		125	78 - 135	1	17
1,1,2,2-Tetrachloroethane	50.0	52.59		ug/L		105	69 - 131	1	20
1,1,2-Trichloroethane	50.0	51.32		ug/L		103	80 - 124	0	15
1,1-Dichloroethane	50.0	59.96		ug/L		120	78 - 125	2	17
Diisopropyl ether	50.0	56.13		ug/L		112	61 - 142	1	50
1,1-Dichloroethene	50.0	69.51	*	ug/L		139	79 - 124	2	17
1,1-Dichloropropene	50.0	59.38		ug/L		119	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	61.30		ug/L		123	62 - 133	1	25
1,2,3-Trichloropropane	50.0	56.85		ug/L		114	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	59.43		ug/L		119	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	53.81		ug/L		108	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	57.18		ug/L		114	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	55.27		ug/L		111	80 - 129	2	15
1,2-Dichlorobenzene	50.0	52.19		ug/L		104	80 - 121	5	15
1,2-Dichloroethane	50.0	58.19		ug/L		116	77 - 121	2	17
1,2-Dichloropropane	50.0	52.92		ug/L		106	75 - 120	3	17
1,3,5-Trimethylbenzene	50.0	55.29		ug/L		111	77 - 127	0	17
1,3-Dichlorobenzene	50.0	52.94		ug/L		106	80 - 122	1	15
1,3-Dichloropropane	50.0	52.47		ug/L		105	80 - 125	0	14
1,4-Dichlorobenzene	50.0	53.19		ug/L		106	80 - 120	1	15
2,2-Dichloropropane	50.0	52.07		ug/L		104	43 - 161	0	18
2-Butanone (MEK)	250	295.1		ug/L		118	62 - 133	5	19
2-Chlorotoluene	50.0	53.20		ug/L		106	75 - 126	0	17
2-Hexanone	250	269.1		ug/L		108	60 - 142	1	15
4-Chlorotoluene	50.0	54.00		ug/L		108	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	271.9		ug/L		109	60 - 137	2	17
Acetone	250	278.2		ug/L		111	54 - 145	1	21
Benzene	50.0	57.91		ug/L		116	80 - 121	3	17
Bromobenzene	50.0	54.88		ug/L		110	68 - 130	0	20
Bromochloromethane	50.0	57.19		ug/L		114	78 - 129	1	17
Bromodichloromethane	50.0	62.22		ug/L		124	75 - 129	1	18
Bromoform	50.0	58.50		ug/L		117	46 - 145	0	16
Bromomethane	50.0	60.28		ug/L		121	41 - 150	3	50
Carbon disulfide	50.0	56.15		ug/L		112	77 - 126	3	21
Carbon tetrachloride	50.0	65.25		ug/L		131	64 - 147	2	19
Chlorobenzene	50.0	53.77		ug/L		108	80 - 120	0	14
Chlorodibromomethane	50.0	58.03		ug/L		116	69 - 133	0	15
Chloroethane	50.0	54.28		ug/L		109	72 - 120	1	20
Chloroform	50.0	57.50		ug/L		115	73 - 129	2	18
Chloromethane	50.0	47.38		ug/L		95	12 - 150	0	31
cis-1,2-Dichloroethene	50.0	56.77		ug/L		114	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	53.06		ug/L		106	74 - 140	1	15
Dibromomethane	50.0	57.49		ug/L		115	71 - 125	2	16
Dichlorodifluoromethane	50.0	62.77		ug/L		126	37 - 127	1	18
Ethylbenzene	50.0	56.50		ug/L		113	80 - 130	0	15
Hexachlorobutadiene	50.0	54.84		ug/L		110	49 - 146	0	23
Isopropylbenzene	50.0	57.11		ug/L		114	80 - 141	1	16

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69278/4

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Methyl tert-butyl ether	50.0	59.26		ug/L		119	72 - 133	2	16	
Methylene Chloride	50.0	57.12		ug/L		114	79 - 123	6	17	
Naphthalene	50.0	62.33		ug/L		125	62 - 138	0	26	
n-Butylbenzene	50.0	57.22		ug/L		114	68 - 132	3	18	
N-Propylbenzene	50.0	54.10		ug/L		108	75 - 129	0	17	
p-Isopropyltoluene	50.0	55.55		ug/L		111	75 - 128	0	16	
sec-Butylbenzene	50.0	56.28		ug/L		113	76 - 128	1	16	
Styrene	50.0	57.53		ug/L		115	80 - 127	1	24	
tert-Butylbenzene	50.0	55.88		ug/L		112	76 - 126	0	16	
Tetrachloroethene	50.0	55.77		ug/L		112	80 - 126	1	16	
Toluene	50.0	54.92		ug/L		110	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	63.32	*	ug/L		127	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	53.44		ug/L		107	63 - 134	1	14	
Trichloroethene	50.0	58.51		ug/L		117	80 - 123	1	17	
Trichlorofluoromethane	50.0	57.84		ug/L		116	65 - 124	0	18	
Vinyl chloride	50.0	55.52		ug/L		111	68 - 120	2	17	
Xylenes, Total	150	167.4		ug/L		112	80 - 132	0	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 19:48	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 19:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 19:48	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 19:48	1
2-Hexanone	ND		10.0	ug/L			04/02/13 19:48	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 19:48	1
Acetone	ND		50.0	ug/L			04/02/13 19:48	1
Benzene	ND		1.00	ug/L			04/02/13 19:48	1
Bromobenzene	ND		1.00	ug/L			04/02/13 19:48	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 19:48	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 19:48	1
Bromoform	ND		1.00	ug/L			04/02/13 19:48	1
Bromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 19:48	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 19:48	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Chloroethane	ND		1.00	ug/L			04/02/13 19:48	1
Chloroform	ND		1.00	ug/L			04/02/13 19:48	1
Chloromethane	ND		1.00	ug/L			04/02/13 19:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
Dibromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 19:48	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 19:48	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 19:48	1
Methylene Chloride	ND		5.00	ug/L			04/02/13 19:48	1
Naphthalene	ND		5.00	ug/L			04/02/13 19:48	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 19:48	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Styrene	ND		1.00	ug/L			04/02/13 19:48	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 19:48	1
Toluene	ND		1.00	ug/L			04/02/13 19:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
Trichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 19:48	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 19:48	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 19:48	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/02/13 19:48	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/02/13 19:48	1
Dibromofluoromethane (Surr)	99		70 - 130		04/02/13 19:48	1
Toluene-d8 (Surr)	96		70 - 130		04/02/13 19:48	1

Lab Sample ID: LCS 490-69679/3

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.90		ug/L		108	74 - 135
1,1,1-Trichloroethane	50.0	60.87		ug/L		122	78 - 135
1,1,2,2-Tetrachloroethane	50.0	49.59		ug/L		99	69 - 131
1,1,2-Trichloroethane	50.0	49.74		ug/L		99	80 - 124
1,1-Dichloroethane	50.0	58.61		ug/L		117	78 - 125
Diisopropyl ether	50.0	55.19		ug/L		110	61 - 142
1,1-Dichloroethene	50.0	67.35	*	ug/L		135	79 - 124
1,1-Dichloropropene	50.0	58.22		ug/L		116	80 - 122
1,2,3-Trichlorobenzene	50.0	59.41		ug/L		119	62 - 133
1,2,3-Trichloropropane	50.0	52.63		ug/L		105	70 - 131
1,2,4-Trichlorobenzene	50.0	58.63		ug/L		117	63 - 133
1,2,4-Trimethylbenzene	50.0	53.06		ug/L		106	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.27		ug/L		107	54 - 125
1,2-Dibromoethane (EDB)	50.0	53.61		ug/L		107	80 - 129
1,2-Dichlorobenzene	50.0	51.82		ug/L		104	80 - 121
1,2-Dichloroethane	50.0	56.46		ug/L		113	77 - 121
1,2-Dichloropropane	50.0	52.16		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	50.0	54.08		ug/L		108	77 - 127
1,3-Dichlorobenzene	50.0	53.55		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	50.67		ug/L		101	80 - 125
1,4-Dichlorobenzene	50.0	52.62		ug/L		105	80 - 120
2,2-Dichloropropane	50.0	61.69		ug/L		123	43 - 161
2-Butanone (MEK)	250	284.9		ug/L		114	62 - 133
2-Chlorotoluene	50.0	53.57		ug/L		107	75 - 126
2-Hexanone	250	248.3		ug/L		99	60 - 142
4-Chlorotoluene	50.0	53.54		ug/L		107	75 - 130
4-Methyl-2-pentanone (MIBK)	250	253.0		ug/L		101	60 - 137
Acetone	250	285.3		ug/L		114	54 - 145
Benzene	50.0	57.05		ug/L		114	80 - 121
Bromobenzene	50.0	52.82		ug/L		106	68 - 130
Bromochloromethane	50.0	55.71		ug/L		111	78 - 129
Bromodichloromethane	50.0	61.81		ug/L		124	75 - 129
Bromoform	50.0	55.26		ug/L		111	46 - 145
Bromomethane	50.0	58.96		ug/L		118	41 - 150
Carbon disulfide	50.0	54.52		ug/L		109	77 - 126
Carbon tetrachloride	50.0	62.15		ug/L		124	64 - 147
Chlorobenzene	50.0	53.09		ug/L		106	80 - 120
Chlorodibromomethane	50.0	55.25		ug/L		111	69 - 133

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69679/3

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	52.71		ug/L		105	72 - 120
Chloroform	50.0	56.93		ug/L		114	73 - 129
Chloromethane	50.0	44.63		ug/L		89	12 - 150
cis-1,2-Dichloroethene	50.0	57.22		ug/L		114	76 - 125
cis-1,3-Dichloropropene	50.0	53.59		ug/L		107	74 - 140
Dibromomethane	50.0	55.46		ug/L		111	71 - 125
Dichlorodifluoromethane	50.0	69.64	*	ug/L		139	37 - 127
Ethylbenzene	50.0	55.44		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	54.42		ug/L		109	49 - 146
Isopropylbenzene	50.0	55.91		ug/L		112	80 - 141
Methyl tert-butyl ether	50.0	57.97		ug/L		116	72 - 133
Methylene Chloride	50.0	54.64		ug/L		109	79 - 123
Naphthalene	50.0	59.04		ug/L		118	62 - 138
n-Butylbenzene	50.0	57.69		ug/L		115	68 - 132
N-Propylbenzene	50.0	54.00		ug/L		108	75 - 129
p-Isopropyltoluene	50.0	55.11		ug/L		110	75 - 128
sec-Butylbenzene	50.0	56.20		ug/L		112	76 - 128
Styrene	50.0	55.72		ug/L		111	80 - 127
tert-Butylbenzene	50.0	55.53		ug/L		111	76 - 126
Tetrachloroethene	50.0	54.44		ug/L		109	80 - 126
Toluene	50.0	53.54		ug/L		107	80 - 126
trans-1,2-Dichloroethene	50.0	61.48		ug/L		123	79 - 126
trans-1,3-Dichloropropene	50.0	53.58		ug/L		107	63 - 134
Trichloroethene	50.0	58.04		ug/L		116	80 - 123
Trichlorofluoromethane	50.0	53.79		ug/L		108	65 - 124
Vinyl chloride	50.0	52.99		ug/L		106	68 - 120
Xylenes, Total	150	163.5		ug/L		109	80 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-69679/4

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	53.56		ug/L		107	74 - 135	1	16
1,1,1,1-Trichloroethane	50.0	61.51		ug/L		123	78 - 135	1	17
1,1,1,2,2-Tetrachloroethane	50.0	53.34		ug/L		107	69 - 131	7	20
1,1,2-Trichloroethane	50.0	49.12		ug/L		98	80 - 124	1	15
1,1-Dichloroethane	50.0	59.65		ug/L		119	78 - 125	2	17
Diisopropyl ether	50.0	57.12		ug/L		114	61 - 142	3	50
1,1-Dichloroethene	50.0	68.13	*	ug/L		136	79 - 124	1	17
1,1-Dichloropropene	50.0	59.00		ug/L		118	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	59.58		ug/L		119	62 - 133	0	25

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69679/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69679

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit	RPD	Limit
1,2,3-Trichloropropane	50.0	55.79		ug/L		112	70 - 131	6	19	
1,2,4-Trichlorobenzene	50.0	58.21		ug/L		116	63 - 133	1	19	
1,2,4-Trimethylbenzene	50.0	53.71		ug/L		107	77 - 126	1	16	
1,2-Dibromo-3-Chloropropane	50.0	54.57		ug/L		109	54 - 125	2	24	
1,2-Dibromoethane (EDB)	50.0	53.15		ug/L		106	80 - 129	1	15	
1,2-Dichlorobenzene	50.0	52.00		ug/L		104	80 - 121	0	15	
1,2-Dichloroethane	50.0	58.07		ug/L		116	77 - 121	3	17	
1,2-Dichloropropane	50.0	53.09		ug/L		106	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	54.60		ug/L		109	77 - 127	1	17	
1,3-Dichlorobenzene	50.0	53.27		ug/L		107	80 - 122	1	15	
1,3-Dichloropropane	50.0	50.27		ug/L		101	80 - 125	1	14	
1,4-Dichlorobenzene	50.0	52.77		ug/L		106	80 - 120	0	15	
2,2-Dichloropropane	50.0	64.19		ug/L		128	43 - 161	4	18	
2-Butanone (MEK)	250	290.8		ug/L		116	62 - 133	2	19	
2-Chlorotoluene	50.0	53.87		ug/L		108	75 - 126	1	17	
2-Hexanone	250	252.2		ug/L		101	60 - 142	2	15	
4-Chlorotoluene	50.0	53.79		ug/L		108	75 - 130	0	18	
4-Methyl-2-pentanone (MIBK)	250	252.3		ug/L		101	60 - 137	0	17	
Acetone	250	299.5		ug/L		120	54 - 145	5	21	
Benzene	50.0	57.66		ug/L		115	80 - 121	1	17	
Bromobenzene	50.0	55.72		ug/L		111	68 - 130	5	20	
Bromochloromethane	50.0	56.58		ug/L		113	78 - 129	2	17	
Bromodichloromethane	50.0	61.86		ug/L		124	75 - 129	0	18	
Bromoform	50.0	57.73		ug/L		115	46 - 145	4	16	
Bromomethane	50.0	61.41		ug/L		123	41 - 150	4	50	
Carbon disulfide	50.0	55.41		ug/L		111	77 - 126	2	21	
Carbon tetrachloride	50.0	63.69		ug/L		127	64 - 147	2	19	
Chlorobenzene	50.0	52.58		ug/L		105	80 - 120	1	14	
Chlorodibromomethane	50.0	55.16		ug/L		110	69 - 133	0	15	
Chloroethane	50.0	53.00		ug/L		106	72 - 120	1	20	
Chloroform	50.0	57.91		ug/L		116	73 - 129	2	18	
Chloromethane	50.0	47.59		ug/L		95	12 - 150	6	31	
cis-1,2-Dichloroethene	50.0	57.71		ug/L		115	76 - 125	1	17	
cis-1,3-Dichloropropene	50.0	52.65		ug/L		105	74 - 140	2	15	
Dibromomethane	50.0	56.33		ug/L		113	71 - 125	2	16	
Dichlorodifluoromethane	50.0	70.48 *		ug/L		141	37 - 127	1	18	
Ethylbenzene	50.0	55.36		ug/L		111	80 - 130	0	15	
Hexachlorobutadiene	50.0	53.43		ug/L		107	49 - 146	2	23	
Isopropylbenzene	50.0	59.24		ug/L		118	80 - 141	6	16	
Methyl tert-butyl ether	50.0	59.36		ug/L		119	72 - 133	2	16	
Methylene Chloride	50.0	57.70		ug/L		115	79 - 123	5	17	
Naphthalene	50.0	59.02		ug/L		118	62 - 138	0	26	
n-Butylbenzene	50.0	57.34		ug/L		115	68 - 132	1	18	
N-Propylbenzene	50.0	55.01		ug/L		110	75 - 129	2	17	
p-Isopropyltoluene	50.0	55.41		ug/L		111	75 - 128	1	16	
sec-Butylbenzene	50.0	56.30		ug/L		113	76 - 128	0	16	
Styrene	50.0	56.13		ug/L		112	80 - 127	1	24	
tert-Butylbenzene	50.0	56.06		ug/L		112	76 - 126	1	16	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69679/4

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	50.0	54.45		ug/L		109	80 - 126	0	16
Toluene	50.0	53.34		ug/L		107	80 - 126	0	15
trans-1,2-Dichloroethene	50.0	63.02		ug/L		126	79 - 126	2	16
trans-1,3-Dichloropropene	50.0	53.50		ug/L		107	63 - 134	0	14
Trichloroethene	50.0	59.37		ug/L		119	80 - 123	2	17
Trichlorofluoromethane	50.0	56.64		ug/L		113	65 - 124	5	18
Vinyl chloride	50.0	55.13		ug/L		110	68 - 120	4	17
Xylenes, Total	150	164.5		ug/L		110	80 - 132	1	15

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: MB 490-69767/7

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1-Dichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
Diisopropyl ether	ND		2.00	ug/L			04/03/13 14:20	1
1,1-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
1,1-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/03/13 14:20	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,3-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
2,2-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
2-Butanone (MEK)	ND		50.0	ug/L			04/03/13 14:20	1
2-Chlorotoluene	ND		1.00	ug/L			04/03/13 14:20	1
2-Hexanone	ND		10.0	ug/L			04/03/13 14:20	1
4-Chlorotoluene	ND		1.00	ug/L			04/03/13 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/03/13 14:20	1
Acetone	ND		50.0	ug/L			04/03/13 14:20	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69767/7

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	ug/L			04/03/13 14:20	1
Bromobenzene	ND		1.00	ug/L			04/03/13 14:20	1
Bromochloromethane	ND		1.00	ug/L			04/03/13 14:20	1
Bromodichloromethane	ND		1.00	ug/L			04/03/13 14:20	1
Bromoform	ND		1.00	ug/L			04/03/13 14:20	1
Bromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Carbon disulfide	ND		1.00	ug/L			04/03/13 14:20	1
Carbon tetrachloride	ND		1.00	ug/L			04/03/13 14:20	1
Chlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
Chlorodibromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Chloroethane	ND		1.00	ug/L			04/03/13 14:20	1
Chloroform	ND		1.00	ug/L			04/03/13 14:20	1
Chloromethane	ND		1.00	ug/L			04/03/13 14:20	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
Dibromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/03/13 14:20	1
Ethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Hexachlorobutadiene	ND		2.00	ug/L			04/03/13 14:20	1
Isopropylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/03/13 14:20	1
Methylene Chloride	ND		5.00	ug/L			04/03/13 14:20	1
Naphthalene	ND		5.00	ug/L			04/03/13 14:20	1
n-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
N-Propylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
p-Isopropyltoluene	ND		1.00	ug/L			04/03/13 14:20	1
sec-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Styrene	ND		1.00	ug/L			04/03/13 14:20	1
tert-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Tetrachloroethene	ND		1.00	ug/L			04/03/13 14:20	1
Toluene	ND		1.00	ug/L			04/03/13 14:20	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
Trichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
Trichlorofluoromethane	ND		1.00	ug/L			04/03/13 14:20	1
Vinyl chloride	ND		1.00	ug/L			04/03/13 14:20	1
Xylenes, Total	ND		3.00	ug/L			04/03/13 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		04/03/13 14:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/03/13 14:20	1
Dibromofluoromethane (Surr)	100		70 - 130		04/03/13 14:20	1
Toluene-d8 (Surr)	106		70 - 130		04/03/13 14:20	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69767/3

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	58.20		ug/L		116	74 - 135
1,1,1-Trichloroethane	50.0	48.29		ug/L		97	78 - 135
1,1,2,2-Tetrachloroethane	50.0	49.72		ug/L		99	69 - 131
1,1,2-Trichloroethane	50.0	50.28		ug/L		101	80 - 124
1,1-Dichloroethane	50.0	47.43		ug/L		95	78 - 125
Diisopropyl ether	50.0	40.32		ug/L		81	61 - 142
1,1-Dichloroethene	50.0	61.95		ug/L		124	79 - 124
1,1-Dichloropropene	50.0	49.95		ug/L		100	80 - 122
1,2,3-Trichlorobenzene	50.0	57.89		ug/L		116	62 - 133
1,2,3-Trichloropropane	50.0	49.18		ug/L		98	70 - 131
1,2,4-Trichlorobenzene	50.0	57.11		ug/L		114	63 - 133
1,2,4-Trimethylbenzene	50.0	55.18		ug/L		110	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	61.34		ug/L		123	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.00		ug/L		108	80 - 129
1,2-Dichlorobenzene	50.0	53.44		ug/L		107	80 - 121
1,2-Dichloroethane	50.0	43.32		ug/L		87	77 - 121
1,2-Dichloropropane	50.0	43.08		ug/L		86	75 - 120
1,3,5-Trimethylbenzene	50.0	55.93		ug/L		112	77 - 127
1,3-Dichlorobenzene	50.0	53.31		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	50.38		ug/L		101	80 - 125
1,4-Dichlorobenzene	50.0	52.87		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	52.58		ug/L		105	43 - 161
2-Butanone (MEK)	250	230.9		ug/L		92	62 - 133
2-Chlorotoluene	50.0	51.12		ug/L		102	75 - 126
2-Hexanone	250	239.0		ug/L		96	60 - 142
4-Chlorotoluene	50.0	51.19		ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	250	228.3		ug/L		91	60 - 137
Acetone	250	206.1		ug/L		82	54 - 145
Benzene	50.0	46.40		ug/L		93	80 - 121
Bromobenzene	50.0	46.67		ug/L		93	68 - 130
Bromochloromethane	50.0	50.70		ug/L		101	78 - 129
Bromodichloromethane	50.0	56.59		ug/L		113	75 - 129
Bromoform	50.0	62.79		ug/L		126	46 - 145
Bromomethane	50.0	67.47		ug/L		135	41 - 150
Carbon disulfide	50.0	51.52		ug/L		103	77 - 126
Carbon tetrachloride	50.0	54.89		ug/L		110	64 - 147
Chlorobenzene	50.0	54.78		ug/L		110	80 - 120
Chlorodibromomethane	50.0	62.99		ug/L		126	69 - 133
Chloroethane	50.0	52.45		ug/L		105	72 - 120
Chloroform	50.0	46.45		ug/L		93	73 - 129
Chloromethane	50.0	31.56		ug/L		63	12 - 150
cis-1,2-Dichloroethene	50.0	46.53		ug/L		93	76 - 125
cis-1,3-Dichloropropene	50.0	57.16		ug/L		114	74 - 140
Dibromomethane	50.0	49.21		ug/L		98	71 - 125
Dichlorodifluoromethane	50.0	51.81		ug/L		104	37 - 127
Ethylbenzene	50.0	52.76		ug/L		106	80 - 130
Hexachlorobutadiene	50.0	44.44		ug/L		89	49 - 146
Isopropylbenzene	50.0	57.75		ug/L		116	80 - 141

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69767/3

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.42		ug/L		103	72 - 133
Methylene Chloride	50.0	53.10		ug/L		106	79 - 123
Naphthalene	50.0	54.86		ug/L		110	62 - 138
n-Butylbenzene	50.0	54.20		ug/L		108	68 - 132
N-Propylbenzene	50.0	52.05		ug/L		104	75 - 129
p-Isopropyltoluene	50.0	57.48		ug/L		115	75 - 128
sec-Butylbenzene	50.0	56.62		ug/L		113	76 - 128
Styrene	50.0	57.87		ug/L		116	80 - 127
tert-Butylbenzene	50.0	57.57		ug/L		115	76 - 126
Tetrachloroethene	50.0	54.03		ug/L		108	80 - 126
Toluene	50.0	51.93		ug/L		104	80 - 126
trans-1,2-Dichloroethene	50.0	48.94		ug/L		98	79 - 126
trans-1,3-Dichloropropene	50.0	56.76		ug/L		114	63 - 134
Trichloroethene	50.0	55.19		ug/L		110	80 - 123
Trichlorofluoromethane	50.0	48.67		ug/L		97	65 - 124
Vinyl chloride	50.0	47.42		ug/L		95	68 - 120
Xylenes, Total	150	158.9		ug/L		106	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 490-69767/4

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	60.06		ug/L		120	74 - 135	3	16
1,1,1-Trichloroethane	50.0	50.56		ug/L		101	78 - 135	5	17
1,1,2,2-Tetrachloroethane	50.0	51.68		ug/L		103	69 - 131	4	20
1,1,2-Trichloroethane	50.0	51.92		ug/L		104	80 - 124	3	15
1,1-Dichloroethane	50.0	49.21		ug/L		98	78 - 125	4	17
Diisopropyl ether	50.0	41.18		ug/L		82	61 - 142	2	50
1,1-Dichloroethene	50.0	64.35	*	ug/L		129	79 - 124	4	17
1,1-Dichloropropene	50.0	51.34		ug/L		103	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	58.42		ug/L		117	62 - 133	1	25
1,2,3-Trichloropropane	50.0	48.41		ug/L		97	70 - 131	2	19
1,2,4-Trichlorobenzene	50.0	59.15		ug/L		118	63 - 133	3	19
1,2,4-Trimethylbenzene	50.0	56.84		ug/L		114	77 - 126	3	16
1,2-Dibromo-3-Chloropropane	50.0	62.74		ug/L		125	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	55.94		ug/L		112	80 - 129	4	15
1,2-Dichlorobenzene	50.0	54.16		ug/L		108	80 - 121	1	15
1,2-Dichloroethane	50.0	43.88		ug/L		88	77 - 121	1	17
1,2-Dichloropropane	50.0	45.12		ug/L		90	75 - 120	5	17
1,3,5-Trimethylbenzene	50.0	57.85		ug/L		116	77 - 127	3	17
1,3-Dichlorobenzene	50.0	54.77		ug/L		110	80 - 122	3	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69767/4

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	50.0	51.40		ug/L		103	80 - 125	2	14
1,4-Dichlorobenzene	50.0	53.52		ug/L		107	80 - 120	1	15
2,2-Dichloropropane	50.0	53.44		ug/L		107	43 - 161	2	18
2-Butanone (MEK)	250	226.7		ug/L		91	62 - 133	2	19
2-Chlorotoluene	50.0	52.52		ug/L		105	75 - 126	3	17
2-Hexanone	250	246.4		ug/L		99	60 - 142	3	15
4-Chlorotoluene	50.0	51.93		ug/L		104	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	240.2		ug/L		96	60 - 137	5	17
Acetone	250	212.3		ug/L		85	54 - 145	3	21
Benzene	50.0	47.93		ug/L		96	80 - 121	3	17
Bromobenzene	50.0	48.31		ug/L		97	68 - 130	3	20
Bromochloromethane	50.0	50.95		ug/L		102	78 - 129	0	17
Bromodichloromethane	50.0	57.46		ug/L		115	75 - 129	2	18
Bromoform	50.0	64.94		ug/L		130	46 - 145	3	16
Bromomethane	50.0	68.37		ug/L		137	41 - 150	1	50
Carbon disulfide	50.0	52.53		ug/L		105	77 - 126	2	21
Carbon tetrachloride	50.0	58.58		ug/L		117	64 - 147	7	19
Chlorobenzene	50.0	56.79		ug/L		114	80 - 120	4	14
Chlorodibromomethane	50.0	65.36		ug/L		131	69 - 133	4	15
Chloroethane	50.0	54.84		ug/L		110	72 - 120	4	20
Chloroform	50.0	48.07		ug/L		96	73 - 129	3	18
Chloromethane	50.0	31.72		ug/L		63	12 - 150	0	31
cis-1,2-Dichloroethene	50.0	47.99		ug/L		96	76 - 125	3	17
cis-1,3-Dichloropropene	50.0	58.44		ug/L		117	74 - 140	2	15
Dibromomethane	50.0	50.29		ug/L		101	71 - 125	2	16
Dichlorodifluoromethane	50.0	53.46		ug/L		107	37 - 127	3	18
Ethylbenzene	50.0	55.40		ug/L		111	80 - 130	5	15
Hexachlorobutadiene	50.0	46.88		ug/L		94	49 - 146	5	23
Isopropylbenzene	50.0	59.82		ug/L		120	80 - 141	4	16
Methyl tert-butyl ether	50.0	52.84		ug/L		106	72 - 133	3	16
Methylene Chloride	50.0	54.24		ug/L		108	79 - 123	2	17
Naphthalene	50.0	56.00		ug/L		112	62 - 138	2	26
n-Butylbenzene	50.0	55.26		ug/L		111	68 - 132	2	18
N-Propylbenzene	50.0	53.57		ug/L		107	75 - 129	3	17
p-Isopropyltoluene	50.0	59.30		ug/L		119	75 - 128	3	16
sec-Butylbenzene	50.0	58.38		ug/L		117	76 - 128	3	16
Styrene	50.0	59.63		ug/L		119	80 - 127	3	24
tert-Butylbenzene	50.0	59.26		ug/L		119	76 - 126	3	16
Tetrachloroethene	50.0	56.79		ug/L		114	80 - 126	5	16
Toluene	50.0	54.05		ug/L		108	80 - 126	4	15
trans-1,2-Dichloroethene	50.0	50.91		ug/L		102	79 - 126	4	16
trans-1,3-Dichloropropene	50.0	58.93		ug/L		118	63 - 134	4	14
Trichloroethene	50.0	54.90		ug/L		110	80 - 123	1	17
Trichlorofluoromethane	50.0	49.70		ug/L		99	65 - 124	2	18
Vinyl chloride	50.0	49.28		ug/L		99	68 - 120	4	17
Xylenes, Total	150	166.3		ug/L		111	80 - 132	5	15

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69767/4

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 490-70865/7

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1-Dichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
Diisopropyl ether	ND		2.00	ug/L			04/08/13 19:17	1
1,1-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
1,1-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/08/13 19:17	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,3-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
2,2-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
2-Butanone (MEK)	ND		50.0	ug/L			04/08/13 19:17	1
2-Chlorotoluene	ND		1.00	ug/L			04/08/13 19:17	1
2-Hexanone	ND		10.0	ug/L			04/08/13 19:17	1
4-Chlorotoluene	ND		1.00	ug/L			04/08/13 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/08/13 19:17	1
Acetone	ND		50.0	ug/L			04/08/13 19:17	1
Benzene	ND		1.00	ug/L			04/08/13 19:17	1
Bromobenzene	ND		1.00	ug/L			04/08/13 19:17	1
Bromochloromethane	ND		1.00	ug/L			04/08/13 19:17	1
Bromodichloromethane	ND		1.00	ug/L			04/08/13 19:17	1
Bromoform	ND		1.00	ug/L			04/08/13 19:17	1
Bromomethane	ND		1.00	ug/L			04/08/13 19:17	1
Carbon disulfide	ND		1.00	ug/L			04/08/13 19:17	1
Carbon tetrachloride	ND		1.00	ug/L			04/08/13 19:17	1
Chlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
Chlorodibromomethane	ND		1.00	ug/L			04/08/13 19:17	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-70865/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70865

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloroethane	ND		1.00	ug/L			04/08/13 19:17	1
Chloroform	ND		1.00	ug/L			04/08/13 19:17	1
Chloromethane	ND		1.00	ug/L			04/08/13 19:17	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
Dibromomethane	ND		1.00	ug/L			04/08/13 19:17	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/08/13 19:17	1
Ethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Hexachlorobutadiene	ND		2.00	ug/L			04/08/13 19:17	1
Isopropylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/08/13 19:17	1
Methylene Chloride	ND		5.00	ug/L			04/08/13 19:17	1
Naphthalene	ND		5.00	ug/L			04/08/13 19:17	1
n-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
N-Propylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
p-Isopropyltoluene	ND		1.00	ug/L			04/08/13 19:17	1
sec-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Styrene	ND		1.00	ug/L			04/08/13 19:17	1
tert-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Tetrachloroethene	ND		1.00	ug/L			04/08/13 19:17	1
Toluene	ND		1.00	ug/L			04/08/13 19:17	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
Trichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
Trichlorofluoromethane	ND		1.00	ug/L			04/08/13 19:17	1
Vinyl chloride	ND		1.00	ug/L			04/08/13 19:17	1
Xylenes, Total	ND		3.00	ug/L			04/08/13 19:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/08/13 19:17	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/08/13 19:17	1
Dibromofluoromethane (Surr)	106		70 - 130		04/08/13 19:17	1
Toluene-d8 (Surr)	93		70 - 130		04/08/13 19:17	1

Lab Sample ID: LCS 490-70865/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70865

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	51.42		ug/L		103	74 - 135
1,1,1-Trichloroethane	50.0	57.31		ug/L		115	78 - 135
1,1,2,2-Tetrachloroethane	50.0	57.66		ug/L		115	69 - 131
1,1,2-Trichloroethane	50.0	51.76		ug/L		104	80 - 124
1,1-Dichloroethane	50.0	56.08		ug/L		112	78 - 125
Diisopropyl ether	50.0	57.27		ug/L		115	61 - 142
1,1-Dichloroethene	50.0	61.76		ug/L		124	79 - 124
1,1-Dichloropropene	50.0	54.91		ug/L		110	80 - 122
1,2,3-Trichlorobenzene	50.0	60.77		ug/L		122	62 - 133

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-70865/3

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	59.64		ug/L		119	70 - 131
1,2,4-Trichlorobenzene	50.0	58.04		ug/L		116	63 - 133
1,2,4-Trimethylbenzene	50.0	51.23		ug/L		102	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	57.78		ug/L		116	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.25		ug/L		112	80 - 129
1,2-Dichlorobenzene	50.0	51.00		ug/L		102	80 - 121
1,2-Dichloroethane	50.0	59.20		ug/L		118	77 - 121
1,2-Dichloropropane	50.0	52.39		ug/L		105	75 - 120
1,3,5-Trimethylbenzene	50.0	52.03		ug/L		104	77 - 127
1,3-Dichlorobenzene	50.0	50.33		ug/L		101	80 - 122
1,3-Dichloropropane	50.0	52.02		ug/L		104	80 - 125
1,4-Dichlorobenzene	50.0	50.48		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	59.93		ug/L		120	43 - 161
2-Butanone (MEK)	250	322.0		ug/L		129	62 - 133
2-Chlorotoluene	50.0	50.71		ug/L		101	75 - 126
2-Hexanone	250	276.6		ug/L		111	60 - 142
4-Chlorotoluene	50.0	51.35		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	280.6		ug/L		112	60 - 137
Acetone	250	297.6		ug/L		119	54 - 145
Benzene	50.0	54.86		ug/L		110	80 - 121
Bromobenzene	50.0	55.60		ug/L		111	68 - 130
Bromochloromethane	50.0	56.98		ug/L		114	78 - 129
Bromodichloromethane	50.0	63.08		ug/L		126	75 - 129
Bromoform	50.0	59.41		ug/L		119	46 - 145
Bromomethane	50.0	50.69		ug/L		101	41 - 150
Carbon disulfide	50.0	49.95		ug/L		100	77 - 126
Carbon tetrachloride	50.0	57.71		ug/L		115	64 - 147
Chlorobenzene	50.0	48.88		ug/L		98	80 - 120
Chlorodibromomethane	50.0	57.76		ug/L		116	69 - 133
Chloroethane	50.0	45.50		ug/L		91	72 - 120
Chloroform	50.0	55.10		ug/L		110	73 - 129
Chloromethane	50.0	38.78		ug/L		78	12 - 150
cis-1,2-Dichloroethene	50.0	55.44		ug/L		111	76 - 125
cis-1,3-Dichloropropene	50.0	53.57		ug/L		107	74 - 140
Dibromomethane	50.0	59.55		ug/L		119	71 - 125
Dichlorodifluoromethane	50.0	54.94		ug/L		110	37 - 127
Ethylbenzene	50.0	50.80		ug/L		102	80 - 130
Hexachlorobutadiene	50.0	51.03		ug/L		102	49 - 146
Isopropylbenzene	50.0	51.02		ug/L		102	80 - 141
Methyl tert-butyl ether	50.0	63.09		ug/L		126	72 - 133
Methylene Chloride	50.0	53.74		ug/L		107	79 - 123
Naphthalene	50.0	65.37		ug/L		131	62 - 138
n-Butylbenzene	50.0	53.63		ug/L		107	68 - 132
N-Propylbenzene	50.0	50.75		ug/L		101	75 - 129
p-Isopropyltoluene	50.0	51.23		ug/L		102	75 - 128
sec-Butylbenzene	50.0	51.71		ug/L		103	76 - 128
Styrene	50.0	52.97		ug/L		106	80 - 127
tert-Butylbenzene	50.0	50.84		ug/L		102	76 - 126

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-70865/3

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	50.0	48.77		ug/L		98	80 - 126
Toluene	50.0	49.65		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	57.61		ug/L		115	79 - 126
trans-1,3-Dichloropropene	50.0	54.94		ug/L		110	63 - 134
Trichloroethene	50.0	53.75		ug/L		107	80 - 123
Trichlorofluoromethane	50.0	49.48		ug/L		99	65 - 124
Vinyl chloride	50.0	45.95		ug/L		92	68 - 120
Xylenes, Total	150	152.0		ug/L		101	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-70865/4

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.79		ug/L		104	74 - 135	1	16
1,1,1-Trichloroethane	50.0	58.16		ug/L		116	78 - 135	1	17
1,1,1,2,2-Tetrachloroethane	50.0	56.51		ug/L		113	69 - 131	2	20
1,1,2-Trichloroethane	50.0	52.05		ug/L		104	80 - 124	1	15
1,1-Dichloroethane	50.0	57.08		ug/L		114	78 - 125	2	17
Diisopropyl ether	50.0	57.02		ug/L		114	61 - 142	0	50
1,1-Dichloroethene	50.0	63.20	*	ug/L		126	79 - 124	2	17
1,1-Dichloropropene	50.0	54.69		ug/L		109	80 - 122	0	17
1,2,3-Trichlorobenzene	50.0	61.45		ug/L		123	62 - 133	1	25
1,2,3-Trichloropropane	50.0	58.68		ug/L		117	70 - 131	2	19
1,2,4-Trichlorobenzene	50.0	58.52		ug/L		117	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	50.75		ug/L		101	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	61.77		ug/L		124	54 - 125	7	24
1,2-Dibromoethane (EDB)	50.0	56.03		ug/L		112	80 - 129	0	15
1,2-Dichlorobenzene	50.0	51.17		ug/L		102	80 - 121	0	15
1,2-Dichloroethane	50.0	60.09		ug/L		120	77 - 121	1	17
1,2-Dichloropropane	50.0	52.76		ug/L		106	75 - 120	1	17
1,3,5-Trimethylbenzene	50.0	51.37		ug/L		103	77 - 127	1	17
1,3-Dichlorobenzene	50.0	50.26		ug/L		101	80 - 122	0	15
1,3-Dichloropropane	50.0	52.70		ug/L		105	80 - 125	1	14
1,4-Dichlorobenzene	50.0	50.80		ug/L		102	80 - 120	1	15
2,2-Dichloropropane	50.0	58.38		ug/L		117	43 - 161	3	18
2-Butanone (MEK)	250	326.9		ug/L		131	62 - 133	1	19
2-Chlorotoluene	50.0	50.28		ug/L		101	75 - 126	1	17
2-Hexanone	250	285.1		ug/L		114	60 - 142	3	15
4-Chlorotoluene	50.0	51.06		ug/L		102	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	284.1		ug/L		114	60 - 137	1	17
Acetone	250	314.8		ug/L		126	54 - 145	6	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-70865/4

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	55.08		ug/L		110	80 - 121	0	17
Bromobenzene	50.0	54.64		ug/L		109	68 - 130	2	20
Bromochloromethane	50.0	58.29		ug/L		117	78 - 129	2	17
Bromodichloromethane	50.0	64.13		ug/L		128	75 - 129	2	18
Bromoform	50.0	60.34		ug/L		121	46 - 145	2	16
Bromomethane	50.0	51.15		ug/L		102	41 - 150	1	50
Carbon disulfide	50.0	50.39		ug/L		101	77 - 126	1	21
Carbon tetrachloride	50.0	58.00		ug/L		116	64 - 147	1	19
Chlorobenzene	50.0	49.94		ug/L		100	80 - 120	2	14
Chlorodibromomethane	50.0	58.67		ug/L		117	69 - 133	2	15
Chloroethane	50.0	46.85		ug/L		94	72 - 120	3	20
Chloroform	50.0	56.14		ug/L		112	73 - 129	2	18
Chloromethane	50.0	38.21		ug/L		76	12 - 150	1	31
cis-1,2-Dichloroethene	50.0	56.29		ug/L		113	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	53.59		ug/L		107	74 - 140	0	15
Dibromomethane	50.0	60.17		ug/L		120	71 - 125	1	16
Dichlorodifluoromethane	50.0	55.52		ug/L		111	37 - 127	1	18
Ethylbenzene	50.0	51.91		ug/L		104	80 - 130	2	15
Hexachlorobutadiene	50.0	49.81		ug/L		100	49 - 146	2	23
Isopropylbenzene	50.0	51.62		ug/L		103	80 - 141	1	16
Methyl tert-butyl ether	50.0	63.84		ug/L		128	72 - 133	1	16
Methylene Chloride	50.0	56.05		ug/L		112	79 - 123	4	17
Naphthalene	50.0	65.40		ug/L		131	62 - 138	0	26
n-Butylbenzene	50.0	52.95		ug/L		106	68 - 132	1	18
N-Propylbenzene	50.0	50.02		ug/L		100	75 - 129	1	17
p-Isopropyltoluene	50.0	50.55		ug/L		101	75 - 128	1	16
sec-Butylbenzene	50.0	51.22		ug/L		102	76 - 128	1	16
Styrene	50.0	53.97		ug/L		108	80 - 127	2	24
tert-Butylbenzene	50.0	50.71		ug/L		101	76 - 126	0	16
Tetrachloroethene	50.0	49.15		ug/L		98	80 - 126	1	16
Toluene	50.0	50.07		ug/L		100	80 - 126	1	15
trans-1,2-Dichloroethene	50.0	58.07		ug/L		116	79 - 126	1	16
trans-1,3-Dichloropropene	50.0	55.11		ug/L		110	63 - 134	0	14
Trichloroethene	50.0	54.08		ug/L		108	80 - 123	1	17
Trichlorofluoromethane	50.0	48.28		ug/L		97	65 - 124	2	18
Vinyl chloride	50.0	46.54		ug/L		93	68 - 120	1	17
Xylenes, Total	150	153.8		ug/L		103	80 - 132	1	15

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	94		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-69074/1-A

Matrix: Water

Analysis Batch: 69522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69074

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Acenaphthylene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[a]anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[a]pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Phenanthrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Chrysene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Fluorene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Naphthalene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		29 - 120	03/30/13 14:44	04/02/13 23:25	1
Terphenyl-d14 (Surr)	84		13 - 120	03/30/13 14:44	04/02/13 23:25	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/30/13 14:44	04/02/13 23:25	1

Lab Sample ID: LCS 490-69074/2-A

Matrix: Water

Analysis Batch: 69851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	43.05		ug/L		86	46 - 120
Acenaphthylene	50.0	45.10		ug/L		90	48 - 120
Anthracene	50.0	43.61		ug/L		87	58 - 130
Benzo[a]anthracene	50.0	37.56		ug/L		75	57 - 120
Benzo[a]pyrene	50.0	32.00		ug/L		64	57 - 124
Benzo[b]fluoranthene	50.0	32.33		ug/L		65	51 - 125
Benzo[g,h,i]perylene	50.0	33.42		ug/L		67	51 - 123
Benzo[k]fluoranthene	50.0	32.69		ug/L		65	51 - 120
Pyrene	50.0	39.90		ug/L		80	53 - 129
Phenanthrene	50.0	47.20		ug/L		94	56 - 120
Chrysene	50.0	37.61		ug/L		75	55 - 120
Dibenz(a,h)anthracene	50.0	32.26		ug/L		65	50 - 125
Fluoranthene	50.0	43.95		ug/L		88	56 - 120
Fluorene	50.0	45.18		ug/L		90	52 - 120
Indeno[1,2,3-cd]pyrene	50.0	32.72		ug/L		65	54 - 125
Naphthalene	50.0	40.85		ug/L		82	37 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
Terphenyl-d14 (Surr)	70		13 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69074/2-A
Matrix: Water
Analysis Batch: 69851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69074

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	66		27 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-69126/24
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/01/13 17:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150		04/01/13 17:58	1

Lab Sample ID: LCS 490-69126/9
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1160		ug/L		116	66 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	115		50 - 150

Lab Sample ID: LCSD 490-69126/47
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1058		ug/L		106	66 - 140	9	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	118		50 - 150

Lab Sample ID: MB 490-69398/15
Matrix: Water
Analysis Batch: 69398

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/02/13 14:36	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-69398/8

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 69398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1085		ug/L		108	66 - 140
		<i>LCS</i>	<i>LCS</i>				
<i>Surrogate</i>		<i>%Recovery</i>	<i>Qualifier</i>			<i>Limits</i>	
<i>a,a,a-Trifluorotoluene</i>		110				50 - 150	

Lab Sample ID: LCSD 490-69398/46

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 69398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	997.8		ug/L		100	66 - 140	8	42
		<i>LCSD</i>	<i>LCSD</i>						
<i>Surrogate</i>		<i>%Recovery</i>	<i>Qualifier</i>			<i>Limits</i>			
<i>a,a,a-Trifluorotoluene</i>		109				50 - 150			

Lab Sample ID: MB 490-69585/27

Client Sample ID: Method Blank
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 69585

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 22:36	1
		<i>MB</i>	<i>MB</i>					
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>		<i>Prepared</i>		<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	95		50 - 150				04/02/13 22:36	1

Lab Sample ID: LCS 490-69585/25

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 69585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1024		ug/L		102	66 - 140
		<i>LCS</i>	<i>LCS</i>				
<i>Surrogate</i>		<i>%Recovery</i>	<i>Qualifier</i>			<i>Limits</i>	
<i>a,a,a-Trifluorotoluene</i>		81				50 - 150	

Lab Sample ID: LCSD 490-69585/26

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 69585

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	997.0		ug/L		100	66 - 140	3	42
		<i>LCSD</i>	<i>LCSD</i>						
<i>Surrogate</i>		<i>%Recovery</i>	<i>Qualifier</i>			<i>Limits</i>			
<i>a,a,a-Trifluorotoluene</i>		80				50 - 150			

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-69051/1-A

Matrix: Water

Analysis Batch: 69244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69051

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		03/30/13 13:37	04/01/13 14:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	57		50 - 150			03/30/13 13:37	04/01/13 14:23	1

Lab Sample ID: LCS 490-69051/2-A

Matrix: Water

Analysis Batch: 69244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	769.1		ug/L		77	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl (Surr)	80		50 - 150				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-70515/3

Matrix: Water

Analysis Batch: 70515

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/06/13 00:14	1

Lab Sample ID: LCS 490-70515/4

Matrix: Water

Analysis Batch: 70515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.16		mg/L		104	90 - 110

Lab Sample ID: 490-23087-19 MS

Matrix: Water

Analysis Batch: 70515

Client Sample ID: OS-5E

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	259		50.0	302.2	E 4	mg/L		86	80 - 120

Lab Sample ID: 490-23087-19 DU

Matrix: Water

Analysis Batch: 70515

Client Sample ID: OS-5E

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	259		268.1	E	mg/L		3	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 490-70582/3
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/06/13 18:23	1

Lab Sample ID: LCS 490-70582/4
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.51		mg/L		109	90 - 110

Lab Sample ID: LCSD 490-70582/5
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	54.22		mg/L		108	90 - 110	1	20

Lab Sample ID: MB 490-71145/3
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/09/13 20:33	1

Lab Sample ID: LCS 490-71145/4
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.48		mg/L		105	90 - 110

Lab Sample ID: LCSD 490-71145/5
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	52.48		mg/L		105	90 - 110	0	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-69578/1-A
Matrix: Water
Analysis Batch: 69974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69578

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 16:47	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Iron	ND		0.100	mg/L		04/02/13 12:54	04/03/13 16:47	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-69578/1-A

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69578

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 16:47	1
Manganese	ND		0.0150	mg/L		04/02/13 12:54	04/03/13 16:47	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1

Lab Sample ID: LCS 490-69578/2-A

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.143		mg/L		107	80 - 120
Arsenic	0.0500	0.04640		mg/L		93	80 - 120
Chromium	0.200	0.2046		mg/L		102	80 - 120
Copper	0.250	0.2495		mg/L		100	80 - 120
Iron	1.00	1.016		mg/L		102	80 - 120
Lead	0.0500	0.05230		mg/L		105	80 - 120
Manganese	0.500	0.5067		mg/L		101	80 - 120
Selenium	0.0500	0.05300		mg/L		106	80 - 120

Lab Sample ID: 490-23123-A-12-D MS

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		2.00	2.002		mg/L		100	75 - 125
Arsenic	0.150		0.0500	0.2056		mg/L		112	75 - 125
Chromium	ND		0.200	0.1969		mg/L		98	75 - 125
Copper	ND		0.250	0.2492		mg/L		100	75 - 125
Iron	59.3		1.00	62.89	4	mg/L		355	75 - 125
Lead	ND		0.0500	0.05190		mg/L		104	75 - 125
Manganese	2.41		0.500	2.985	4	mg/L		115	75 - 125
Selenium	ND		0.0500	0.05310		mg/L		106	75 - 125

Lab Sample ID: 490-23123-A-12-E MSD

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aluminum	ND		2.00	2.039		mg/L		102	75 - 125	2	20
Arsenic	0.150		0.0500	0.1924		mg/L		85	75 - 125	7	20
Chromium	ND		0.200	0.1907		mg/L		95	75 - 125	3	20
Copper	ND		0.250	0.2529		mg/L		101	75 - 125	1	20
Iron	59.3		1.00	58.70	4	mg/L		-64	75 - 125	7	20
Lead	ND		0.0500	0.05110		mg/L		102	75 - 125	2	20
Manganese	2.41		0.500	2.822	4	mg/L		82	75 - 125	6	20
Selenium	ND		0.0500	0.05210		mg/L		104	75 - 125	2	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-70295/1-A
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70295

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Arsenic	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Chromium	ND		0.00500	mg/L		04/05/13 08:31	04/05/13 12:48	1
Copper	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Iron	ND		0.100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Lead	ND		0.00500	mg/L		04/05/13 08:31	04/05/13 12:48	1
Manganese	ND		0.0150	mg/L		04/05/13 08:31	04/05/13 12:48	1
Selenium	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1

Lab Sample ID: LCS 490-70295/2-A
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.128		mg/L		106	80 - 120
Arsenic	0.0500	0.04670		mg/L		93	80 - 120
Chromium	0.200	0.2087		mg/L		104	80 - 120
Copper	0.250	0.2523		mg/L		101	80 - 120
Iron	1.00	1.061		mg/L		106	80 - 120
Lead	0.0500	0.05070		mg/L		101	80 - 120
Manganese	0.500	0.5337		mg/L		107	80 - 120
Selenium	0.0500	0.04830		mg/L		97	80 - 120

Lab Sample ID: 490-23206-G-9-B MS
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	17.3		2.00	23.59	4	mg/L		314	75 - 125
Arsenic	0.0218		0.0500	0.03910	F	mg/L		35	75 - 125
Chromium	0.0537		0.200	0.2428		mg/L		95	75 - 125
Copper	0.0568		0.250	0.3069		mg/L		100	75 - 125
Iron	72.7		1.00	75.01	4	mg/L		235	75 - 125
Lead	0.0607		0.0500	0.06080	F	mg/L		0.2	75 - 125
Manganese	3.62		0.500	4.109	4	mg/L		99	75 - 125
Selenium	ND		0.0500	0.03410	F	mg/L		52	75 - 125

Lab Sample ID: 490-23206-G-9-C MSD
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	17.3		2.00	23.37	4	mg/L		303	75 - 125	1	20
Arsenic	0.0218		0.0500	0.04280	F	mg/L		42	75 - 125	9	20
Chromium	0.0537		0.200	0.2404		mg/L		93	75 - 125	1	20
Copper	0.0568		0.250	0.2997		mg/L		97	75 - 125	2	20
Iron	72.7		1.00	74.33	4	mg/L		167	75 - 125	1	20
Lead	0.0607		0.0500	0.06390	F	mg/L		6	75 - 125	5	20
Manganese	3.62		0.500	4.097	4	mg/L		96	75 - 125	0	20

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-23206-G-9-C MSD
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		0.0500	0.03760	F	mg/L		59	75 - 125	10	20

Method: 9050A - Specific Conductance

Lab Sample ID: MB 490-70628/2
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	ND		10.0	umhos/cm			04/06/13 15:14	1

Lab Sample ID: 490-22777-C-10 DU
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance (25C)	59.5		59.50		umhos/cm		0	20

Lab Sample ID: 490-23157-A-20-A DU
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance (25C)	179		178.8		umhos/cm		0	20

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: LCS 490-71473/1
Matrix: Water
Analysis Batch: 71473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	228	237.0		mV vs. NHE		104	96 - 104

Lab Sample ID: LCSD 490-71473/4
Matrix: Water
Analysis Batch: 71473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxidation Reduction Potential	228	237.0		mV vs. NHE		104	96 - 104	0	20

Lab Sample ID: 490-23087-21 DU
Matrix: Water
Analysis Batch: 71473

Client Sample ID: MW-13S-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Oxidation Reduction Potential	430	H	430.0		mV vs. NHE		0	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS VOA

Analysis Batch: 69277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-1	Trip Blank-1	Total/NA	Water	8260B	
490-23087-2	Trip Blank-2	Total/NA	Water	8260B	
490-23087-3	MW-13 ISOC	Total/NA	Water	8260B	
490-23087-6	OR-3W	Total/NA	Water	8260B	
490-23087-8	OR-5S	Total/NA	Water	8260B	
490-23087-9	Trip Blank-3	Total/NA	Water	8260B	
490-23087-10	OR-10S	Total/NA	Water	8260B	
490-23087-11	Trip Blank-4	Total/NA	Water	8260B	
490-23087-12	OS-20S	Total/NA	Water	8260B	
490-23087-13	Trip Blank-5	Total/NA	Water	8260B	
490-23087-15	OS-10S	Total/NA	Water	8260B	
490-23087-16	Trip Blank-6	Total/NA	Water	8260B	
490-23087-17	Trip Blank-7	Total/NA	Water	8260B	
490-23087-18	OS-5S	Total/NA	Water	8260B	
490-23087-23	Trip Blank-8	Total/NA	Water	8260B	
LCS 490-69277/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69277/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69277/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-19	OS-5E	Total/NA	Water	8260B	
490-23087-20	OS-10E	Total/NA	Water	8260B	
490-23087-22	MW-13S-1	Total/NA	Water	8260B	
LCS 490-69278/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69278/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69278/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8260B	
490-23087-4	OR-10W	Total/NA	Water	8260B	
490-23087-5	OR-5W	Total/NA	Water	8260B	
490-23087-7	OR-3S	Total/NA	Water	8260B	
490-23087-10	OR-10S	Total/NA	Water	8260B	
490-23087-12	OS-20S	Total/NA	Water	8260B	
490-23087-14	OS-15S	Total/NA	Water	8260B	
490-23087-15	OS-10S	Total/NA	Water	8260B	
490-23087-18	OS-5S	Total/NA	Water	8260B	
490-23087-22	MW-13S-1	Total/NA	Water	8260B	
LCS 490-69679/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69679/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69679/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8260B	
LCS 490-69767/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69767/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69767/7	Method Blank	Total/NA	Water	8260B	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS VOA (Continued)

Analysis Batch: 70865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8260B	
LCS 490-70865/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-70865/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-70865/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 69074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3510C	
490-23087-4	OR-10W	Total/NA	Water	3510C	
490-23087-5	OR-5W	Total/NA	Water	3510C	
490-23087-6	OR-3W	Total/NA	Water	3510C	
490-23087-7	OR-3S	Total/NA	Water	3510C	
490-23087-8	OR-5S	Total/NA	Water	3510C	
490-23087-10	OR-10S	Total/NA	Water	3510C	
490-23087-12	OS-20S	Total/NA	Water	3510C	
490-23087-14	OS-15S	Total/NA	Water	3510C	
490-23087-15	OS-10S	Total/NA	Water	3510C	
490-23087-18	OS-5S	Total/NA	Water	3510C	
490-23087-19	OS-5E	Total/NA	Water	3510C	
490-23087-20	OS-10E	Total/NA	Water	3510C	
490-23087-21	MW-13S-2	Total/NA	Water	3510C	
490-23087-22	MW-13S-1	Total/NA	Water	3510C	
LCS 490-69074/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-69074/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 69522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8270D	69074
490-23087-5	OR-5W	Total/NA	Water	8270D	69074
490-23087-8	OR-5S	Total/NA	Water	8270D	69074
490-23087-10	OR-10S	Total/NA	Water	8270D	69074
490-23087-12	OS-20S	Total/NA	Water	8270D	69074
490-23087-14	OS-15S	Total/NA	Water	8270D	69074
MB 490-69074/1-A	Method Blank	Total/NA	Water	8270D	69074

Analysis Batch: 69851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-4	OR-10W	Total/NA	Water	8270D	69074
490-23087-6	OR-3W	Total/NA	Water	8270D	69074
490-23087-7	OR-3S	Total/NA	Water	8270D	69074
490-23087-15	OS-10S	Total/NA	Water	8270D	69074
490-23087-18	OS-5S	Total/NA	Water	8270D	69074
490-23087-19	OS-5E	Total/NA	Water	8270D	69074
490-23087-20	OS-10E	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074
490-23087-22	MW-13S-1	Total/NA	Water	8270D	69074
LCS 490-69074/2-A	Lab Control Sample	Total/NA	Water	8270D	69074

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS Semi VOA (Continued)

Analysis Batch: 70080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074

GC VOA

Analysis Batch: 69126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-18	OS-5S	Total/NA	Water	8015C	
490-23087-19	OS-5E	Total/NA	Water	8015C	
490-23087-20	OS-10E	Total/NA	Water	8015C	
LCS 490-69126/9	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69126/47	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69126/24	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 69398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8015C	
LCS 490-69398/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69398/46	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69398/15	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 69585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8015C	
490-23087-4	OR-10W	Total/NA	Water	8015C	
490-23087-5	OR-5W	Total/NA	Water	8015C	
490-23087-6	OR-3W	Total/NA	Water	8015C	
490-23087-7	OR-3S	Total/NA	Water	8015C	
490-23087-8	OR-5S	Total/NA	Water	8015C	
490-23087-10	OR-10S	Total/NA	Water	8015C	
490-23087-12	OS-20S	Total/NA	Water	8015C	
490-23087-14	OS-15S	Total/NA	Water	8015C	
490-23087-15	OS-10S	Total/NA	Water	8015C	
490-23087-22	MW-13S-1	Total/NA	Water	8015C	
LCS 490-69585/25	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69585/26	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69585/27	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 69051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3510C	
490-23087-4	OR-10W	Total/NA	Water	3510C	
490-23087-5	OR-5W	Total/NA	Water	3510C	
490-23087-6	OR-3W	Total/NA	Water	3510C	
490-23087-7	OR-3S	Total/NA	Water	3510C	
490-23087-8	OR-5S	Total/NA	Water	3510C	
490-23087-10	OR-10S	Total/NA	Water	3510C	
490-23087-12	OS-20S	Total/NA	Water	3510C	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC Semi VOA (Continued)

Prep Batch: 69051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-14	OS-15S	Total/NA	Water	3510C	
490-23087-15	OS-10S	Total/NA	Water	3510C	
490-23087-18	OS-5S	Total/NA	Water	3510C	
490-23087-19	OS-5E	Total/NA	Water	3510C	
490-23087-20	OS-10E	Total/NA	Water	3510C	
490-23087-21	MW-13S-2	Total/NA	Water	3510C	
490-23087-22	MW-13S-1	Total/NA	Water	3510C	
LCS 490-69051/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-69051/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 69244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8015C	69051
490-23087-4	OR-10W	Total/NA	Water	8015C	69051
490-23087-5	OR-5W	Total/NA	Water	8015C	69051
490-23087-6	OR-3W	Total/NA	Water	8015C	69051
490-23087-7	OR-3S	Total/NA	Water	8015C	69051
490-23087-8	OR-5S	Total/NA	Water	8015C	69051
490-23087-14	OS-15S	Total/NA	Water	8015C	69051
490-23087-18	OS-5S	Total/NA	Water	8015C	69051
490-23087-19	OS-5E	Total/NA	Water	8015C	69051
490-23087-20	OS-10E	Total/NA	Water	8015C	69051
LCS 490-69051/2-A	Lab Control Sample	Total/NA	Water	8015C	69051
MB 490-69051/1-A	Method Blank	Total/NA	Water	8015C	69051

Analysis Batch: 69519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	8015C	69051
490-23087-12	OS-20S	Total/NA	Water	8015C	69051
490-23087-15	OS-10S	Total/NA	Water	8015C	69051
490-23087-21	MW-13S-2	Total/NA	Water	8015C	69051
490-23087-22	MW-13S-1	Total/NA	Water	8015C	69051

HPLC/IC

Analysis Batch: 70515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-19 DU	OS-5E	Total/NA	Water	300.0	
490-23087-19 MS	OS-5E	Total/NA	Water	300.0	
LCS 490-70515/4	Lab Control Sample	Total/NA	Water	300.0	
MB 490-70515/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 70582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	300.0	
490-23087-4	OR-10W	Total/NA	Water	300.0	
490-23087-5	OR-5W	Total/NA	Water	300.0	
490-23087-6	OR-3W	Total/NA	Water	300.0	
490-23087-7	OR-3S	Total/NA	Water	300.0	
490-23087-8	OR-5S	Total/NA	Water	300.0	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

HPLC/IC (Continued)

Analysis Batch: 70582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	300.0	
490-23087-12	OS-20S	Total/NA	Water	300.0	
490-23087-14	OS-15S	Total/NA	Water	300.0	
490-23087-18	OS-5S	Total/NA	Water	300.0	
490-23087-19	OS-5E	Total/NA	Water	300.0	
490-23087-20	OS-10E	Total/NA	Water	300.0	
490-23087-21	MW-13S-2	Total/NA	Water	300.0	
490-23087-22	MW-13S-1	Total/NA	Water	300.0	
LCS 490-70582/4	Lab Control Sample	Total/NA	Water	300.0	
LCS D 490-70582/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-70582/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 71145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-15	OS-10S	Total/NA	Water	300.0	
LCS 490-71145/4	Lab Control Sample	Total/NA	Water	300.0	
LCS D 490-71145/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-71145/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 69578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3010A	
490-23087-4	OR-10W	Total/NA	Water	3010A	
490-23087-5	OR-5W	Total/NA	Water	3010A	
490-23087-6	OR-3W	Total/NA	Water	3010A	
490-23087-7	OR-3S	Total/NA	Water	3010A	
490-23087-8	OR-5S	Total/NA	Water	3010A	
490-23087-10	OR-10S	Total/NA	Water	3010A	
490-23087-12	OS-20S	Total/NA	Water	3010A	
490-23087-14	OS-15S	Total/NA	Water	3010A	
490-23087-15	OS-10S	Total/NA	Water	3010A	
490-23087-18	OS-5S	Total/NA	Water	3010A	
490-23087-19	OS-5E	Total/NA	Water	3010A	
490-23087-20	OS-10E	Total/NA	Water	3010A	
490-23087-22	MW-13S-1	Total/NA	Water	3010A	
490-23123-A-12-D MS	Matrix Spike	Total/NA	Water	3010A	
490-23123-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-69578/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-69578/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 69974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	6010C	69578
490-23087-4	OR-10W	Total/NA	Water	6010C	69578
490-23087-5	OR-5W	Total/NA	Water	6010C	69578
490-23087-6	OR-3W	Total/NA	Water	6010C	69578
490-23087-7	OR-3S	Total/NA	Water	6010C	69578
490-23087-8	OR-5S	Total/NA	Water	6010C	69578



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Metals (Continued)

Analysis Batch: 69974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-12	OS-20S	Total/NA	Water	6010C	69578
490-23087-14	OS-15S	Total/NA	Water	6010C	69578
490-23087-18	OS-5S	Total/NA	Water	6010C	69578
490-23087-19	OS-5E	Total/NA	Water	6010C	69578
490-23087-20	OS-10E	Total/NA	Water	6010C	69578
490-23087-22	MW-13S-1	Total/NA	Water	6010C	69578
490-23123-A-12-D MS	Matrix Spike	Total/NA	Water	6010C	69578
490-23123-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	69578
LCS 490-69578/2-A	Lab Control Sample	Total/NA	Water	6010C	69578
MB 490-69578/1-A	Method Blank	Total/NA	Water	6010C	69578

Analysis Batch: 70104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-6	OR-3W	Total/NA	Water	6010C	69578
490-23087-10	OR-10S	Total/NA	Water	6010C	69578
490-23087-15	OS-10S	Total/NA	Water	6010C	69578

Prep Batch: 70295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	3010A	
490-23206-G-9-B MS	Matrix Spike	Total/NA	Water	3010A	
490-23206-G-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-70295/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-70295/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 70690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	6010C	70295
490-23206-G-9-B MS	Matrix Spike	Total/NA	Water	6010C	70295
490-23206-G-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	70295
LCS 490-70295/2-A	Lab Control Sample	Total/NA	Water	6010C	70295
MB 490-70295/1-A	Method Blank	Total/NA	Water	6010C	70295

General Chemistry

Analysis Batch: 70628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-22777-C-10 DU	Duplicate	Total/NA	Water	9050A	
490-23087-21	MW-13S-2	Total/NA	Water	9050A	
490-23157-A-20-A DU	Duplicate	Soluble	Water	9050A	
LCS 490-70628/4	Lab Control Sample	Total/NA	Water	9050A	
LCSD 490-70628/5	Lab Control Sample Dup	Total/NA	Water	9050A	
MB 490-70628/2	Method Blank	Total/NA	Water	9050A	

Analysis Batch: 71473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	SM 2580B	
490-23087-21 DU	MW-13S-2	Total/NA	Water	SM 2580B	
LCS 490-71473/1	Lab Control Sample	Total/NA	Water	SM 2580B	
LCSD 490-71473/4	Lab Control Sample Dup	Total/NA	Water	SM 2580B	

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 16:52	BM	TAL NSH

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 17:19	BM	TAL NSH

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 20:28	BM	TAL NSH
Total/NA	Analysis	8260B		10	69679	04/03/13 00:19	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/02/13 23:48	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 04:09	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		5	69244	04/02/13 00:24	JL	TAL NSH
Total/NA	Analysis	300.0		100	70582	04/06/13 19:20	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 18:28	KJ	TAL NSH

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 22:31	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 16:15	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 00:07	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		2	69244	04/02/13 00:40	JL	TAL NSH
Total/NA	Analysis	300.0		100	70582	04/06/13 19:39	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:04	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 21:36	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:10	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 00:37	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 15:28	JL	TAL NSH
Total/NA	Analysis	300.0		50	70582	04/06/13 19:58	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:08	KJ	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-23087-6

Date Collected: 03/27/13 12:55

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 21:49	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 16:38	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 01:07	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 15:44	JL	TAL NSH
Total/NA	Analysis	300.0		200	70582	04/06/13 20:17	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:12	KJ	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		2	70104	04/04/13 10:23	KJ	TAL NSH

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 21:09	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:01	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 01:38	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 16:00	JL	TAL NSH
Total/NA	Analysis	300.0		200	70582	04/06/13 20:37	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:15	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 22:43	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:33	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 02:08	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 16:17	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 20:56	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:19	KJ	TAL NSH

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 17:46	BM	TAL NSH

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 23:11	BM	TAL NSH
Total/NA	Analysis	8260B		50	69679	04/03/13 00:46	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:56	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		10	70080	04/04/13 20:12	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 04:39	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		10	69519	04/02/13 15:05	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/06/13 21:15	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		10	70104	04/04/13 10:27	KJ	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 18:13	BM	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 23:38	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 01:13	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 01:18	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 02:38	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		4	69519	04/02/13 15:21	JL	TAL NSH
Total/NA	Analysis	300.0		10	70582	04/06/13 21:34	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:39	KJ	TAL NSH

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 18:40	BM	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 22:03	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 01:41	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 03:09	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:06	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 21:53	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:42	KJ	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/02/13 00:32	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 01:40	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:24	KP	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	69585	04/03/13 03:39	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		2	69519	04/02/13 13:54	JL	TAL NSH
Total/NA	Analysis	300.0		100	71145	04/09/13 21:33	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		100	70104	04/04/13 10:31	KJ	TAL NSH

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 19:07	BM	TAL NSH

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 19:34	BM	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/02/13 00:59	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 02:08	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:47	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 01:52	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:38	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/06/13 23:09	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:50	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 06:50	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 18:55	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 02:20	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:54	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 23:28	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:53	KJ	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 07:17	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 19:18	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 02:48	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 18:11	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 23:47	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:57	KJ	TAL NSH

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	69767	04/03/13 20:14	JM	TAL NSH
Total/NA	Analysis	8260B		20	70865	04/09/13 02:33	JM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 18:09	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		10	69851	04/03/13 18:32	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		20	70080	04/04/13 20:35	KP	TAL NSH
Total/NA	Analysis	8015C		10	69398	04/02/13 16:46	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		100	69519	04/02/13 15:37	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/07/13 00:06	KD	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			70295	04/05/13 08:31	NLI	TAL NSH
Total/NA	Analysis	6010C		10	70690	04/05/13 16:01	BB	TAL NSH
Total/NA	Analysis	9050A		1	70628	04/06/13 15:14	RG	TAL NSH
Total/NA	Analysis	SM 2580B		1	71473	04/10/13 15:05	RG	TAL NSH

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 07:44	BM	TAL NSH
Total/NA	Analysis	8260B		10	69679	04/03/13 03:29	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 19:41	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 05:10	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		50	69519	04/02/13 14:26	JL	TAL NSH
Total/NA	Analysis	300.0		20	70582	04/07/13 00:25	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 18:00	KJ	TAL NSH

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 20:01	BM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
9050A	Specific Conductance	SW846	TAL NSH
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	TAL NSH

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater",
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	04-30-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

COOLER RECEIPT FORM



Cooler Received/Opened On: 3/29/2013 @0800

1. Tracking # 3445 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

DR-3W
0.2-5W
7B-1

4/4/13
4
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15
18
21

COOLER RECEIPT FOR

Charlotte
 Loc: 490
23087

Cooler Received/Opened On: 3/29/2013 @0800

1. Tracking # 3401 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler? YES... NO... NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO... NA

6. Were custody papers inside cooler? YES... NO... NA

I certify that I opened the cooler and answered questions 1-6 (initial) S

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO... NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO... NA

12. Did all container labels and tags agree with custody papers? YES...NO... NA

13a. Were VOA vials received? YES...NO... NA

b. Was there any observable headspace present in any VOA vial? YES... NO... NA

14. Was there a Trip Blank in this cooler? YES... NO... NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) S

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO... NA

16. Was residual chlorine present? YES... NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) M

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO... NA

18. Did you sign the custody papers in the appropriate place? YES...NO... NA

19. Were correct containers used for the analysis requested? YES...NO... NA

20. Was sufficient amount of sample sent in each container? YES...NO... NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...#

*Or - low
 WISD
 TH-2*



COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3456 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

OR-35
OR-55
TV-3

COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3456 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO... NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES... NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES... NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) D

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...#



COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On 3/29/2013 @ 0800

1. Tracking # 3386 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EV

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) H

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

US-103
OS-155
28-75

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13

COOLER RECEIPT FORM

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3434 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 1.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) _____

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) _____

I certify that I attached a label with the unique LIMS number to each container (Initial) _____

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# _____

OS-55
SE
except 1 L.V.
TB-6

COOLER RECEIPT FORM

Cooler Received/Opened On 3/29/2013 @ 0800

1. Tracking # 3397 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO... NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # _____

135-1
~~135-1~~ 3/29/13
135-2
TB-7

COOLER RECEIPT FORM

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3432 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 1.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# _____

OS-
10 E
and
26-8

1 liter
of
OS-52

TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record



Sample: *TriA Blank-1*

Phone: *704-357-8600*

Lab PM: Brown, Shail
 E-Mail: shail.brown@testamericainc.com

Carrier Tracking No(s):

COC No: 490-9599-4353.2

Page: 1

Due Date Requested:

Analysis Requested

Job #:

TAT Requested (days):

Preservation Codes:

Company: Duke Energy Corporation
 Address: 13399 Hagers Ferry Road
 City: Huntersville
 State, Zip: NC, 28078
 Phone: PO # 567942
 Email: labcustomer@duke-energy.com

Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)

A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Anchor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsH2O2
 P - Na2O4S
 Q - Na2S2O3
 R - Na2S2O5
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Project Name: Pine Street MGP (Spartanburg)
 Project #: 49001290
 Site: SSO#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=material, G=grab)	Preservation Code	8270D - PAH	8016C_DRO	8016C_GRO / 8260B VOC	300 - Sulfate	6010 - Al, As, Cr, Cu, Fe, Pb, Mn, Se	8260B VOC	Total Number of containers	Special Instructions/Note:
TriA Blank-1	3-27-13	800	G	Water		N	A	A	N	D	A		
TriA Blank-2	3-27-13	805	G	Water									
MW-13 ISOC	3-27-13	1015	G	Water									
OR-10W	3-27-13	1055	G	Water									
OR-5W	3-27-13	1150	G	Water									
OR-3W	3-27-13	1255	G	Water									
OR-3S	3-27-13	1350	G	Water									
OR-5S	3-27-13	1430	G	Water									
TriA Blank-3	3-27-13	810	G	W									
OR-10S	3-27-13	1515	G	W									
TriA Blank-4	3-27-13	815	G	W									

Possible Hazard Identification
 Non-hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: *May 2 M. H. Baker*

Received by: *u*

Date/Time: *3/28/13 7:30*

Date/Time: *3/28/13 0500*

Custody Seal Intact: Yes No

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Nashville

2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record



Client Information	Client Contact: Troy Halverson	Lab P.M.: Brown, Shail	Carrier Tracking No(s):
Lab Customer	Phone: 704-357-8600	E-Mail: shail.brown@testamericainc.com	
Company: Duke Energy Corporation	Due Date Requested:	Analysis Requested	
Address: 13339 Hagers Ferry Road			
City: Huntersville	TAT Requested (days):		
State: NC			
Zip: 28078	PO #:		
Phone:	567942		
Email: labcustomer@duke-energy.com	WO #:		
Project Name: Pine Street MGP (Spartanburg)	Project #:		
Site:	49001290		
	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=water, S=solid, O=washbottle, B=Trislu, A=All)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	Special Instructions/Note:
					N	A	N	A		
OS-205	3-27-13	1605	G	Water						
TRIO Blank-5	3-27-13	820	G	Water						
OS-155	3-27-13	1650	G	Water						
OS-105	3-27-13	1730	G	Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: **My 2 Halverson** Date/Time: **3/28/13 7:30** Company: **AMEL**

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.:

Received by: _____ Date/Time: **3/28/13 0500** Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements:

TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: *Tyrell H. Lyles* Lab P/N: *Brown, Shail* Carrier Tracking No(s):
 Lab Customer: *704-357-8600* E-Mail: *shail.brown@testamericainc.com* Job #:
 Company: *Duke Energy Corporation* Job #:
 Address: *13359 Hagers Ferry Road* Date Date Requested: *3-28-13* CCC No: *490-9599-4353.2*
 City: *Huntersville* TAT Requested (days): *3* Page: *3*
 State, Zip: *NC, 28078* PO #: *567942*
 Phone: *labcustomer@duke-energy.com* W/O #: *49001290*
 Email: *labcustomer@duke-energy.com* Project #: *49001290*
 Project Name: *Pine Street MGP (Spartanburg)* SSO#:
 Site: *SSOW#:*

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code (BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested	Total Number of Containers	Special Instructions/Note:
						Field Filtered	Sample	Perform MS/MSD	MS/MSD			
<i>Triq Blank-6</i>	<i>3-28-13</i>	<i>202</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>Triq Blank-7</i>	<i>3-28-13</i>	<i>805</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>OS-55</i>	<i>3-28-13</i>	<i>940</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>OS-5E</i>	<i>3-28-13</i>	<i>1050</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>OS-10E</i>	<i>3-28-13</i>	<i>1145</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>MW-135-2</i>	<i>3-28-13</i>	<i>950</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>MW-135-1</i>	<i>3-27-13</i>	<i>1740</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Mrs J. Hefner* Date/Time: *3-28-13/1300* Company: *AMEK*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody/Seals Intact: Yes No Custody Seal No.: _____

Received by: *W* Date/Time: *3/28/13 0500* Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.		
(2) Save the file & e-mail to:		labcustomer@duke-energy.com
Questions / Problems Call:		704-875-5245
Customer Information		
<u>Name</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Andy Clark	704-357-5630	704-953-6833
<u>Fax</u>	<u>e-Mail Address</u>	
	andy.clark@amec.com	
Accounting Fields		
** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. **	<u>Field Type</u>	<u>Specific Field</u>
Sampling Information		
<u>Sampling Personnel / Contractor</u>	<u>Scheduled Sampling Date</u>	<u>Date Sample Kit Needed</u>
AMEC	3/27/2013	3/25/2013
Shipping Address for Kit		
<u>Name</u>	<u>Phone</u>	<u>Mail Code</u>
Troy Holzschuh	704-357-5616	704-307-1233
<u>Street Address - street address and town needed</u>	<u>State</u>	<u>Zip Code</u>
2801 Yorkmont Rd, Charlotte	NC	28208
Reporting		
<u>Report Due Date</u>	<u>Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard</u>	
	.pdf and excel	
<u>Report To (e-Mail Address 1)</u>	<u>Report To (e-Mail Address 2)</u>	<u>Report to (e-Mail Address 3)</u>
andy.clark@amec.com	angela.adams@amec.com	
Project Specifics		
<u>Project Name</u>		<u>Program Type</u>
Spartanburg MGP		
<u>Site, Location or Station</u>	<u>State</u>	<u>Approximate Number of Days Sampling is Scheduled</u>
Pine Street, Spartanburg	SC	1
<u>Notes, Special Requests, Required Contract Lab to use, etc.</u>		(LIMS Job Number-Duke Lab Provides)
Order is for 15 wells sampled. Please deliver sample jars in coolers by Monday 3-25-13. AMEC will arrange pick up date/time with Candace Bonham, as needed.		
Bottles	Matrix	Variables, Methods
15	Water	VOCs - 8260B
15	Water	PAHs - 8270D
15	Water	Sulfate - 9056
15	Water	TPH - 8015B PHI (GRO and DRO)
15	Water	Metals - 6010B or 6020 (Al, As, Cr, Cu, Fe, Pb, Mn, Se) and sulfate
1	water	Trip Blank

1
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13

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-23087-1

Login Number: 23087**List Source: TestAmerica Nashville****List Number: 1****Creator: Buckingham, Paul**

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13040074

Project Name:

Customer Name(s): Andy Clark, Jessica Bednarcik

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By: _____ **Date:** 4/16/2013
(Signature) Jason C Perkins

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013007209	SPARTANBURG	27-Mar-13 8:00 AM	AMEC	490-23087 Trip Blank-1
2013007210	SPARTANBURG	27-Mar-13 8:05 AM	AMEC	490-23087 Trip Blank - 2
2013007211	SPARTANBURG	27-Mar-13 10:15 AM	AMEC	490-23087 MW-13 ISOC
2013007212	SPARTANBURG	27-Mar-13 10:55 AM	AMEC	490-23087 OR-10W
2013007213	SPARTANBURG	27-Mar-13 11:50 AM	AMEC	490-23087 OR-5W
2013007214	SPARTANBURG	27-Mar-13 12:55 PM	AMEC	490-23087 OR-3W
2013007215	SPARTANBURG	27-Mar-13 1:50 PM	AMEC	490-23087 OR-3S
2013007216	SPARTANBURG	27-Mar-13 2:30 PM	AMEC	490-23087 OR-5S
2013007217	SPARTANBURG	27-Mar-13 8:10 AM	AMEC	490-23087 Trip Blank-3
2013007218	SPARTANBURG	27-Mar-13 3:15 PM	AMEC	490-23087 OR-10S
2013007219	SPARTANBURG	27-Mar-13 8:15 AM	AMEC	490-23087 Trip Blank-4
2013007220	SPARTANBURG	27-Mar-13 4:05 PM	AMEC	490-23087 OS-20S
2013007221	SPARTANBURG	27-Mar-13 8:20 AM	AMEC	490-23087 Trip Blank-5
2013007222	SPARTANBURG	27-Mar-13 4:50 PM	AMEC	490-23087 OS-15S
2013007223	SPARTANBURG	27-Mar-13 5:30 PM	AMEC	490-23087 OS-10S
2013007225	SPARTANBURG	28-Mar-13 8:00 AM	AMEC	490-23087 Trip Blank-6
2013007226	SPARTANBURG	28-Mar-13 8:05 AM	AMEC	490-23087 Trip Blank-7
2013007227	SPARTANBURG	28-Mar-13 9:40 AM	AMEC	490-23087 OS-5S
2013007228	SPARTANBURG	28-Mar-13 10:50 AM	AMEC	490-23087 OS-5E
2013007229	SPARTANBURG	28-Mar-13 11:45 AM	AMEC	490-23087 OS-10e
2013007230	SPARTANBURG	28-Mar-13 9:50 AM	AMEC	490-23087 MW-13 S-2
2013007231	SPARTANBURG	27-Mar-13 5:40 PM	AMEC	490-23087 MW-13 S-1

22 Total Samples

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No

All Results are less than the laboratory reporting limits. Yes No

All laboratory QA/QC requirements are acceptable. Yes No

The following vendor labs are Pending Qualification for 2013: Test America

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 4/16/2013

Certificate of Laboratory Analysis

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Order # J13040074

Site: 490-23087 Trip Blank-1

Collection Date: 27-Mar-13 8:00 AM

Sample #: 2013007209

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank - 2

Collection Date: 27-Mar-13 8:05 AM

Sample #: 2013007210

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 MW-13 ISOC

Collection Date: 27-Mar-13 10:15 AM

Sample #: 2013007211

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-10W

Collection Date: 27-Mar-13 10:55 AM

Sample #: 2013007212

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

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Order # J13040074

Site: 490-23087 OR-10W
Collection Date: 27-Mar-13 10:55 AM

Sample #: 2013007212
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-5W
Collection Date: 27-Mar-13 11:50 AM

Sample #: 2013007213
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-3W
Collection Date: 27-Mar-13 12:55 PM

Sample #: 2013007214
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

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Order # J13040074

Site: 490-23087 OR-3S

Collection Date: 27-Mar-13 1:50 PM

Sample #: 2013007215

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OR-5S

Collection Date: 27-Mar-13 2:30 PM

Sample #: 2013007216

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-3

Collection Date: 27-Mar-13 8:10 AM

Sample #: 2013007217

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13040074

Site: 490-23087 OR-10S
Collection Date: 27-Mar-13 3:15 PM

Sample #: 2013007218
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-4
Collection Date: 27-Mar-13 8:15 AM

Sample #: 2013007219
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-20S
Collection Date: 27-Mar-13 4:05 PM

Sample #: 2013007220
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

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Order # J13040074

Site: 490-23087 Trip Blank-5
Collection Date: 27-Mar-13 8:20 AM

Sample #: 2013007221
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-15S
Collection Date: 27-Mar-13 4:50 PM

Sample #: 2013007222
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-10S
Collection Date: 27-Mar-13 5:30 PM

Sample #: 2013007223
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

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Order # J13040074

Site: 490-23087 Trip Blank-6

Collection Date: 28-Mar-13 8:00 AM

Sample #: 2013007225

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 Trip Blank-7

Collection Date: 28-Mar-13 8:05 AM

Sample #: 2013007226

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-5S

Collection Date: 28-Mar-13 9:40 AM

Sample #: 2013007227

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

SEMIVOLATILES - (Analysis Performed by Test America)

Naphthalene	Complete					Vendor Method		V_T. America
-------------	----------	--	--	--	--	---------------	--	--------------

TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)

DROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

GROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

Site: 490-23087 OS-5E

Collection Date: 28-Mar-13 10:50 AM

Sample #: 2013007228

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

SEMIVOLATILES - (Analysis Performed by Test America)

Naphthalene	Complete					Vendor Method		V_T. America
-------------	----------	--	--	--	--	---------------	--	--------------

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This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 OS-5E
Collection Date: 28-Mar-13 10:50 AM

Sample #: 2013007228
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America

Site: 490-23087 OS-10e
Collection Date: 28-Mar-13 11:45 AM

Sample #: 2013007229
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Site: 490-23087 MW-13 S-2
Collection Date: 28-Mar-13 9:50 AM

Sample #: 2013007230
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SPECIFIC CONDUCTANCE - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13040074

Site: 490-23087 MW-13 S-1

Collection Date: 27-Mar-13 5:40 PM

Sample #: 2013007231

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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Tel: (615)726-0177

TestAmerica Job ID: 490-23087-1
Client Project/Site: Pine Street MGP (Spartanburg) J13040074

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
4/12/2013 6:38:46 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-23087-1	Trip Blank-1	Water	03/27/13 08:00	03/29/13 08:00
490-23087-2	Trip Blank-2	Water	03/27/13 08:05	03/29/13 08:00
490-23087-3	MW-13 ISOC	Water	03/27/13 10:15	03/29/13 08:00
490-23087-4	OR-10W	Water	03/27/13 10:55	03/29/13 08:00
490-23087-5	OR-5W	Water	03/27/13 11:50	03/29/13 08:00
490-23087-6	OR-3W	Water	03/27/13 12:55	03/29/13 08:00
490-23087-7	OR-3S	Water	03/27/13 13:50	03/29/13 08:00
490-23087-8	OR-5S	Water	03/27/13 14:30	03/29/13 08:00
490-23087-9	Trip Blank-3	Water	03/27/13 08:10	03/29/13 08:00
490-23087-10	OR-10S	Water	03/27/13 15:15	03/29/13 08:00
490-23087-11	Trip Blank-4	Water	03/27/13 08:15	03/29/13 08:00
490-23087-12	OS-20S	Water	03/27/13 16:05	03/29/13 08:00
490-23087-13	Trip Blank-5	Water	03/27/13 08:20	03/29/13 08:00
490-23087-14	OS-15S	Water	03/27/13 16:50	03/29/13 08:00
490-23087-15	OS-10S	Water	03/27/13 17:30	03/29/13 08:00
490-23087-16	Trip Blank-6	Water	03/28/13 08:00	03/29/13 08:00
490-23087-17	Trip Blank-7	Water	03/28/13 08:05	03/29/13 08:00
490-23087-18	OS-5S	Water	03/28/13 09:40	03/29/13 08:00
490-23087-19	OS-5E	Water	03/28/13 10:50	03/29/13 08:00
490-23087-20	OS-10E	Water	03/28/13 11:45	03/29/13 08:00
490-23087-21	MW-13S-2	Water	03/28/13 09:50	03/29/13 08:00
490-23087-22	MW-13S-1	Water	03/27/13 17:40	03/29/13 08:00
490-23087-23	Trip Blank-8	Water	03/28/13 00:01	03/29/13 08:00

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Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP (Spartanburg) J13040074

Report Number: 490-23087-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/29/2013 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 0.1° C, 0.5° C, 0.6° C, 0.6° C, 0.6° C, 0.7° C, 1.1° C and 1.5° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Trip Blank-1 (490-23087-1), Trip Blank-2 (490-23087-2), MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), Trip Blank-3 (490-23087-9), OR-10S (490-23087-10), Trip Blank-4 (490-23087-11), OS-20S (490-23087-12), Trip Blank-5 (490-23087-13), OS-15S (490-23087-14), OS-10S (490-23087-15), Trip Blank-6 (490-23087-16), Trip Blank-7 (490-23087-17), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21), MW-13S-1 (490-23087-22) and Trip Blank-8 (490-23087-23) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/01/2013, 04/02/2013, 04/03/2013 and 04/09/2013.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for OR-3S (490-23087-7). Evidence of matrix interference is present, confirmed by repeat analysis; therefore, data has been reported

The following sample was collected in a properly preserved vial, however, the pH was outside the required criteria when verified by the laboratory: OR-3S (490-23087-7).



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1,1-Dichloroethene failed the recovery criteria high for LCS 490-69278/3. 1,1-Dichloroethene and Dichlorodifluoromethane failed the recovery criteria high for LCS 490-69679/3. 1,1-Dichloroethene and trans-1,2-Dichloroethene failed the recovery criteria high for LCSD 490-69278/4. 1,1-Dichloroethene and Dichlorodifluoromethane failed the recovery criteria high for LCSD 490-69679/4.

1,1-Dichloroethene failed the recovery criteria high for LCSD 490-69767/4. 1,1-Dichloroethene failed the recovery criteria high for LCSD 490-70865/4. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The following sample(s) was diluted due to the nature of the sample matrix: MW-13S-2 (490-23087-21). Elevated reporting limits (RLs) are provided.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69679, 69278, 69767, 69277, and 70865.

Samples MW-13 ISOC (490-23087-3)[10X], OR-10S (490-23087-10)[50X], OS-20S (490-23087-12)[5X], OS-10S (490-23087-15)[5X], OS-5S (490-23087-18)[5X], MW-13S-2 (490-23087-21)[20X] and MW-13S-1 (490-23087-22)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analyses. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/30/2013 and analyzed on 04/02/2013, 04/03/2013 and 04/04/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69074.

Samples OR-10S (490-23087-10)[10X], MW-13S-2 (490-23087-21)[10X] and MW-13S-2 (490-23087-21)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analyses. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 04/02/2013 and 04/03/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69126 and 69585. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MW-13S-2 (490-23087-21). Sample was analyzed within the 7 day holding time.

The following sample(s) was diluted due to the nature of the sample matrix: MW-13S-1 (490-23087-22), OR-10S (490-23087-10). Elevated reporting limits (RLs) are provided. Samples foamed.

Samples MW-13 ISOC (490-23087-3)[5X], OR-10S (490-23087-10)[5X], MW-13S-2 (490-23087-21)[10X] and MW-13S-1 (490-23087-22) [5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the GRO analyses. All other quality control parameters were within the acceptance limits.

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Job ID: 490-23087-1 (Continued)**Laboratory: TestAmerica Nashville (Continued)****DIESEL RANGE ORGANICS (DRO)**

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 03/30/2013 and analyzed on 04/01/2013 and 04/02/2013.

Surrogate recovery for the following sample(s) was outside control limits: MW-13 ISOC (490-23087-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed

o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13S-2 (490-23087-21). o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13S-1 (490-23087-22). o-Terphenyl (Surr) failed the surrogate recovery criteria high for MW-13 ISOC (490-23087-3). Due to the level of dilution required for the following sample(s), surrogate recoveries are not accurate: MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22). Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 69051.

Samples MW-13 ISOC (490-23087-3)[5X], OR-10W (490-23087-4)[2X], OR-10S (490-23087-10)[10X], OS-20S (490-23087-12)[4X], OS-10S (490-23087-15)[2X], MW-13S-2 (490-23087-21)[100X] and MW-13S-1 (490-23087-22)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses. All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/02/2013 and 04/05/2013 and analyzed on 04/03/2013, 04/04/2013 and 04/05/2013.

Iron failed the recovery criteria high for the MS and MSD of sample 490-23123-12 in batch 490-69974. Several analytes failed the recovery criteria low for the MS and MSD of sample 490-23206-9 in batch 490-70690. Aluminum and Iron failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

The following sample(s) was diluted due to the abundance of non-target analytes: yttrium OS-10S (490-23087-15). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: Mn OR-10S (490-23087-10). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of Al, Na, and S.: MW-13S-2 (490-23087-21). Elevated reporting limits (RLs) are provided.

Samples OR-3W (490-23087-6)[2X], OR-10S (490-23087-10)[10X], OR-10S (490-23087-10)[100X], OS-10S (490-23087-15)[100X] and MW-13S-2 (490-23087-21)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

REDUCTION-OXIDATION (REDOX) POTENTIAL

Sample MW-13S-2 (490-23087-21) was analyzed for Reduction-Oxidation (REDOX) Potential in accordance with SM 2580B Oxidation Reduction Potential. The samples were analyzed on 04/10/2013.

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Laboratory: TestAmerica Nashville (Continued)

The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time. The following sample(s) was prepared and/or analyzed outside this time period: MW-13S-2 (490-23087-21).

No other difficulties were encountered during the redox analysis. All other quality control parameters were within the acceptance limits.

SULFATE

Samples MW-13 ISOC (490-23087-3), OR-10W (490-23087-4), OR-5W (490-23087-5), OR-3W (490-23087-6), OR-3S (490-23087-7), OR-5S (490-23087-8), OR-10S (490-23087-10), OS-20S (490-23087-12), OS-15S (490-23087-14), OS-10S (490-23087-15), OS-5S (490-23087-18), OS-5E (490-23087-19), OS-10E (490-23087-20), MW-13S-2 (490-23087-21) and MW-13S-1 (490-23087-22) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 04/06/2013, 04/07/2013 and 04/09/2013.

Samples MW-13 ISOC (490-23087-3)[100X], OR-10W (490-23087-4)[100X], OR-5W (490-23087-5)[50X], OR-3W (490-23087-6)[200X], OR-3S (490-23087-7)[200X], OR-5S (490-23087-8)[5X], OR-10S (490-23087-10)[500X], OS-20S (490-23087-12)[10X], OS-15S (490-23087-14)[5X], OS-10S (490-23087-15)[100X], OS-5S (490-23087-18)[500X], OS-5E (490-23087-19)[5X], OS-10E (490-23087-20)[5X], MW-13S-2 (490-23087-21)[500X] and MW-13S-1 (490-23087-22)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the sulfate analyses. All other quality control parameters were within the acceptance limits.

CONDUCTIVITY

Sample MW-13S-2 (490-23087-21) was analyzed for conductivity in accordance with EPA SW846 Method 9050A. The samples were analyzed on 04/06/2013.

Conductivity concentration estimated for the following sample(s) : MW-13S-2 (490-23087-21). Result is equal to upper reporting range of 100,000 umhos/cm.

No other difficulties were encountered during the conductivity analysis. All other quality control parameters were within the acceptance limits.

ORGANIC PREP

Method(s) 3510C: Samples were not able to be treated for residual chlorine. The initial chlorine reading using a strip indicator for all samples were over 10 mg/L which is the highest reading on the strip. Sample -04: After placing 150g of thiosulfate in the sample the chlorine reading was still reading 6mg/L. All samples were treated with thiosulfate but not all residual chlorine could be removed.



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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 16:52	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 16:52	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 16:52	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:52	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 16:52	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:52	1
2-Hexanone	ND		10.0	ug/L			04/01/13 16:52	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 16:52	1
Acetone	ND		50.0	ug/L			04/01/13 16:52	1
Benzene	ND		1.00	ug/L			04/01/13 16:52	1
Bromobenzene	ND		1.00	ug/L			04/01/13 16:52	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 16:52	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 16:52	1
Bromoform	ND		1.00	ug/L			04/01/13 16:52	1
Bromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 16:52	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 16:52	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 16:52	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Chloroethane	ND		1.00	ug/L			04/01/13 16:52	1
Chloroform	ND		1.00	ug/L			04/01/13 16:52	1
Chloromethane	ND		1.00	ug/L			04/01/13 16:52	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
Dibromomethane	ND		1.00	ug/L			04/01/13 16:52	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 16:52	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 16:52	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 16:52	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 16:52	1
Naphthalene	ND		5.00	ug/L			04/01/13 16:52	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 16:52	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Styrene	ND		1.00	ug/L			04/01/13 16:52	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 16:52	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 16:52	1
Toluene	ND		1.00	ug/L			04/01/13 16:52	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:52	1
Trichloroethene	ND		1.00	ug/L			04/01/13 16:52	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 16:52	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 16:52	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 16:52	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 16:52	1
Dibromofluoromethane (Surr)	104		70 - 130		04/01/13 16:52	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 16:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 17:19	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 17:19	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 17:19	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:19	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 17:19	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:19	1
2-Hexanone	ND		10.0	ug/L			04/01/13 17:19	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 17:19	1
Acetone	ND		50.0	ug/L			04/01/13 17:19	1
Benzene	ND		1.00	ug/L			04/01/13 17:19	1
Bromobenzene	ND		1.00	ug/L			04/01/13 17:19	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 17:19	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 17:19	1
Bromoform	ND		1.00	ug/L			04/01/13 17:19	1
Bromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 17:19	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 17:19	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 17:19	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Chloroethane	ND		1.00	ug/L			04/01/13 17:19	1
Chloroform	ND		1.00	ug/L			04/01/13 17:19	1
Chloromethane	ND		1.00	ug/L			04/01/13 17:19	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
Dibromomethane	ND		1.00	ug/L			04/01/13 17:19	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 17:19	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 17:19	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 17:19	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 17:19	1
Naphthalene	ND		5.00	ug/L			04/01/13 17:19	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 17:19	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Styrene	ND		1.00	ug/L			04/01/13 17:19	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 17:19	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 17:19	1
Toluene	ND		1.00	ug/L			04/01/13 17:19	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:19	1
Trichloroethene	ND		1.00	ug/L			04/01/13 17:19	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 17:19	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 17:19	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 17:19	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 17:19	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 17:19	1
Toluene-d8 (Surr)	95		70 - 130		04/01/13 17:19	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 20:28	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2,4-Trimethylbenzene	136		1.00	ug/L			04/01/13 20:28	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 20:28	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 20:28	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,3,5-Trimethylbenzene	46.9		1.00	ug/L			04/01/13 20:28	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:28	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 20:28	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:28	1
2-Hexanone	ND		10.0	ug/L			04/01/13 20:28	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:28	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 20:28	1
Acetone	97.3		50.0	ug/L			04/01/13 20:28	1
Benzene	720		10.0	ug/L			04/03/13 00:19	10
Bromobenzene	ND		1.00	ug/L			04/01/13 20:28	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 20:28	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 20:28	1
Bromoform	ND		1.00	ug/L			04/01/13 20:28	1
Bromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Carbon disulfide	1.66		1.00	ug/L			04/01/13 20:28	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 20:28	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 20:28	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Chloroethane	ND		1.00	ug/L			04/01/13 20:28	1
Chloroform	ND		1.00	ug/L			04/01/13 20:28	1
Chloromethane	ND		1.00	ug/L			04/01/13 20:28	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
Dibromomethane	ND		1.00	ug/L			04/01/13 20:28	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 20:28	1
Ethylbenzene	143		1.00	ug/L			04/01/13 20:28	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 20:28	1
Isopropylbenzene	3.35		1.00	ug/L			04/01/13 20:28	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 20:28	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 20:28	1
Naphthalene	1130		50.0	ug/L			04/03/13 00:19	10
n-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
N-Propylbenzene	1.86		1.00	ug/L			04/01/13 20:28	1
p-Isopropyltoluene	1.90		1.00	ug/L			04/01/13 20:28	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
Styrene	50.2		1.00	ug/L			04/01/13 20:28	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 20:28	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 20:28	1
Toluene	567		10.0	ug/L			04/03/13 00:19	10
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:28	1
Trichloroethene	ND		1.00	ug/L			04/01/13 20:28	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 20:28	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 20:28	1
Xylenes, Total	672		30.0	ug/L			04/03/13 00:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/01/13 20:28	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/03/13 00:19	10
4-Bromofluorobenzene (Surr)	94		70 - 130		04/01/13 20:28	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/03/13 00:19	10
Dibromofluoromethane (Surr)	104		70 - 130		04/01/13 20:28	1
Dibromofluoromethane (Surr)	102		70 - 130		04/03/13 00:19	10
Toluene-d8 (Surr)	96		70 - 130		04/01/13 20:28	1
Toluene-d8 (Surr)	95		70 - 130		04/03/13 00:19	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	12.4		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Acenaphthylene	10.4		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Fluorene	4.38		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/02/13 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	45		29 - 120	03/30/13 14:44	04/02/13 23:48	1
Terphenyl-d14 (Surr)	50		13 - 120	03/30/13 14:44	04/02/13 23:48	1
Nitrobenzene-d5 (Surr)	45		27 - 120	03/30/13 14:44	04/02/13 23:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	4500		500	ug/L			04/03/13 04:09	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	96		50 - 150				04/03/13 04:09	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6600		467	ug/L		03/30/13 13:37	04/02/13 00:24	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	214	X	50 - 150			03/30/13 13:37	04/02/13 00:24	5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4260		100	mg/L			04/06/13 19:20	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.110		0.100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Chromium	0.0155		0.00500	mg/L		04/02/13 12:54	04/03/13 18:28	1
Copper	0.0228		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Iron	0.699		0.100	mg/L		04/02/13 12:54	04/03/13 18:28	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 18:28	1
Manganese	2.70		0.0150	mg/L		04/02/13 12:54	04/03/13 18:28	1
Selenium	0.0110		0.0100	mg/L		04/02/13 12:54	04/03/13 18:28	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 22:31	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 22:31	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2,4-Trimethylbenzene	1.36		1.00	ug/L			04/02/13 22:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 22:31	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 22:31	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:31	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 22:31	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:31	1
2-Hexanone	ND		10.0	ug/L			04/02/13 22:31	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 22:31	1
Acetone	59.8		50.0	ug/L			04/02/13 22:31	1
Benzene	4.32		1.00	ug/L			04/02/13 22:31	1
Bromobenzene	ND		1.00	ug/L			04/02/13 22:31	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 22:31	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 22:31	1
Bromoform	ND		1.00	ug/L			04/02/13 22:31	1
Bromomethane	5.16		1.00	ug/L			04/02/13 22:31	1
Carbon disulfide	10.1		1.00	ug/L			04/02/13 22:31	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 22:31	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 22:31	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 22:31	1
Chloroethane	ND		1.00	ug/L			04/02/13 22:31	1
Chloroform	ND		1.00	ug/L			04/02/13 22:31	1
Chloromethane	9.43		1.00	ug/L			04/02/13 22:31	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
Dibromomethane	ND		1.00	ug/L			04/02/13 22:31	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 22:31	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 22:31	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 22:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 22:31	1
Naphthalene	167		5.00	ug/L			04/02/13 22:31	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 22:31	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Styrene	ND		1.00	ug/L			04/02/13 22:31	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 22:31	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 22:31	1
Toluene	3.06		1.00	ug/L			04/02/13 22:31	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:31	1
Trichloroethene	ND		1.00	ug/L			04/02/13 22:31	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 22:31	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 22:31	1
Xylenes, Total	3.11		3.00	ug/L			04/02/13 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130				04/02/13 22:31	1
4-Bromofluorobenzene (Surr)	98		70 - 130				04/02/13 22:31	1
Dibromofluoromethane (Surr)	102		70 - 130				04/02/13 22:31	1
Toluene-d8 (Surr)	94		70 - 130				04/02/13 22:31	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.01		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Phenanthrene	9.30		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Fluorene	4.05		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Naphthalene	63.3		1.90	ug/L		03/30/13 14:44	04/03/13 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		29 - 120			03/30/13 14:44	04/03/13 16:15	1
Terphenyl-d14 (Surr)	51		13 - 120			03/30/13 14:44	04/03/13 16:15	1
Nitrobenzene-d5 (Surr)	44		27 - 120			03/30/13 14:44	04/03/13 16:15	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 00:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150		04/03/13 00:07	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1130		198	ug/L		03/30/13 13:37	04/02/13 00:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	113		50 - 150	03/30/13 13:37	04/02/13 00:40	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5350		100	mg/L			04/06/13 19:39	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.79		0.100	mg/L		04/02/13 12:54	04/03/13 17:04	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:04	1
Chromium	0.0663		0.00500	mg/L		04/02/13 12:54	04/03/13 17:04	1
Copper	0.155		0.0100	mg/L		04/02/13 12:54	04/03/13 17:04	1
Iron	0.433		0.100	mg/L		04/02/13 12:54	04/03/13 17:04	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:04	1
Manganese	5.22		0.0150	mg/L		04/02/13 12:54	04/03/13 17:04	1
Selenium	0.0116		0.0100	mg/L		04/02/13 12:54	04/03/13 17:04	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 21:36	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 21:36	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 21:36	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 21:36	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:36	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 21:36	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:36	1
2-Hexanone	ND		10.0	ug/L			04/02/13 21:36	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 21:36	1
Acetone	ND		50.0	ug/L			04/02/13 21:36	1
Benzene	1.81		1.00	ug/L			04/02/13 21:36	1
Bromobenzene	ND		1.00	ug/L			04/02/13 21:36	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 21:36	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 21:36	1
Bromoform	ND		1.00	ug/L			04/02/13 21:36	1
Bromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 21:36	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 21:36	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 21:36	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Chloroethane	ND		1.00	ug/L			04/02/13 21:36	1
Chloroform	ND		1.00	ug/L			04/02/13 21:36	1
Chloromethane	ND		1.00	ug/L			04/02/13 21:36	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
Dibromomethane	ND		1.00	ug/L			04/02/13 21:36	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 21:36	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 21:36	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 21:36	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 21:36	1
Naphthalene	6.68		5.00	ug/L			04/02/13 21:36	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 21:36	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Styrene	ND		1.00	ug/L			04/02/13 21:36	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 21:36	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 21:36	1
Toluene	1.50		1.00	ug/L			04/02/13 21:36	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:36	1
Trichloroethene	ND		1.00	ug/L			04/02/13 21:36	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 21:36	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 21:36	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130				04/02/13 21:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130				04/02/13 21:36	1
Dibromofluoromethane (Surr)	106		70 - 130				04/02/13 21:36	1
Toluene-d8 (Surr)	95		70 - 130				04/02/13 21:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	39		29 - 120			03/30/13 14:44	04/03/13 00:10	1
Terphenyl-d14 (Surr)	42		13 - 120			03/30/13 14:44	04/03/13 00:10	1
Nitrobenzene-d5 (Surr)	39		27 - 120			03/30/13 14:44	04/03/13 00:10	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 00:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W
Date Collected: 03/27/13 11:50
Date Received: 03/29/13 08:00

Lab Sample ID: 490-23087-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 00:37	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	779		100	ug/L		03/30/13 13:37	04/01/13 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		50 - 150	03/30/13 13:37	04/01/13 15:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1760		50.0	mg/L			04/06/13 19:58	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.117		0.100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Arsenic	0.0121		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:08	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Iron	0.149		0.100	mg/L		04/02/13 12:54	04/03/13 17:08	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:08	1
Manganese	7.51		0.0150	mg/L		04/02/13 12:54	04/03/13 17:08	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W
Date Collected: 03/27/13 12:55
Date Received: 03/29/13 08:00

Lab Sample ID: 490-23087-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 21:49	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 21:49	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 21:49	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 21:49	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 21:49	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 21:49	1
2-Hexanone	ND		10.0	ug/L			04/01/13 21:49	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 21:49	1
Acetone	146		50.0	ug/L			04/01/13 21:49	1
Benzene	ND		1.00	ug/L			04/01/13 21:49	1
Bromobenzene	ND		1.00	ug/L			04/01/13 21:49	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 21:49	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 21:49	1
Bromoform	ND		1.00	ug/L			04/01/13 21:49	1
Bromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Carbon disulfide	4.94		1.00	ug/L			04/01/13 21:49	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 21:49	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 21:49	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Chloroethane	ND		1.00	ug/L			04/01/13 21:49	1
Chloroform	1.78		1.00	ug/L			04/01/13 21:49	1
Chloromethane	12.1		1.00	ug/L			04/01/13 21:49	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
Dibromomethane	ND		1.00	ug/L			04/01/13 21:49	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 21:49	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 21:49	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 21:49	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W

Lab Sample ID: 490-23087-6

Date Collected: 03/27/13 12:55

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 21:49	1
Naphthalene	ND		5.00	ug/L			04/01/13 21:49	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 21:49	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Styrene	ND		1.00	ug/L			04/01/13 21:49	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 21:49	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 21:49	1
Toluene	ND		1.00	ug/L			04/01/13 21:49	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 21:49	1
Trichloroethene	ND		1.00	ug/L			04/01/13 21:49	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 21:49	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 21:49	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/01/13 21:49	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/01/13 21:49	1
Dibromofluoromethane (Surr)	101		70 - 130		04/01/13 21:49	1
Toluene-d8 (Surr)	85		70 - 130		04/01/13 21:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Phenanthrene	15.8		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Fluorene	14.0		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1
Naphthalene	47.8		1.90	ug/L		03/30/13 14:44	04/03/13 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120	03/30/13 14:44	04/03/13 16:38	1
Terphenyl-d14 (Surr)	53		13 - 120	03/30/13 14:44	04/03/13 16:38	1
Nitrobenzene-d5 (Surr)	52		27 - 120	03/30/13 14:44	04/03/13 16:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 01:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3W
Date Collected: 03/27/13 12:55
Date Received: 03/29/13 08:00

Lab Sample ID: 490-23087-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 01:07	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	2380		98.0	ug/L		03/30/13 13:37	04/01/13 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	96		50 - 150	03/30/13 13:37	04/01/13 15:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	6170		200	mg/L			04/06/13 20:17	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.74		0.100	mg/L		04/02/13 12:54	04/03/13 17:12	1
Arsenic	0.0141		0.0100	mg/L		04/02/13 12:54	04/03/13 17:12	1
Chromium	0.239		0.00500	mg/L		04/02/13 12:54	04/03/13 17:12	1
Copper	0.0590		0.0100	mg/L		04/02/13 12:54	04/03/13 17:12	1
Iron	2.25		0.100	mg/L		04/02/13 12:54	04/03/13 17:12	1
Lead	0.0139		0.00500	mg/L		04/02/13 12:54	04/03/13 17:12	1
Manganese	12.0		0.0300	mg/L		04/02/13 12:54	04/04/13 10:23	2
Selenium	0.0276		0.0100	mg/L		04/02/13 12:54	04/03/13 17:12	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 21:09	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 21:09	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 21:09	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 21:09	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 21:09	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 21:09	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:09	1
2-Hexanone	ND		10.0	ug/L			04/02/13 21:09	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 21:09	1
Acetone	82.6		50.0	ug/L			04/02/13 21:09	1
Benzene	ND		1.00	ug/L			04/02/13 21:09	1
Bromobenzene	ND		1.00	ug/L			04/02/13 21:09	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 21:09	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 21:09	1
Bromoform	ND		1.00	ug/L			04/02/13 21:09	1
Bromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 21:09	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 21:09	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 21:09	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Chloroethane	ND		1.00	ug/L			04/02/13 21:09	1
Chloroform	ND		1.00	ug/L			04/02/13 21:09	1
Chloromethane	ND		1.00	ug/L			04/02/13 21:09	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
Dibromomethane	ND		1.00	ug/L			04/02/13 21:09	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 21:09	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 21:09	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 21:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 21:09	1
Naphthalene	10.5		5.00	ug/L			04/02/13 21:09	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 21:09	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Styrene	ND		1.00	ug/L			04/02/13 21:09	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 21:09	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 21:09	1
Toluene	ND		1.00	ug/L			04/02/13 21:09	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 21:09	1
Trichloroethene	ND		1.00	ug/L			04/02/13 21:09	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 21:09	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 21:09	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130				04/02/13 21:09	1
4-Bromofluorobenzene (Surr)	100		70 - 130				04/02/13 21:09	1
Dibromofluoromethane (Surr)	56	X	70 - 130				04/02/13 21:09	1
Toluene-d8 (Surr)	96		70 - 130				04/02/13 21:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Phenanthrene	17.4		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Fluorene	3.51		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Naphthalene	36.2		1.90	ug/L		03/30/13 14:44	04/03/13 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120			03/30/13 14:44	04/03/13 17:01	1
Terphenyl-d14 (Surr)	60		13 - 120			03/30/13 14:44	04/03/13 17:01	1
Nitrobenzene-d5 (Surr)	54		27 - 120			03/30/13 14:44	04/03/13 17:01	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 01:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		04/03/13 01:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	854		100	ug/L		03/30/13 13:37	04/01/13 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	104		50 - 150	03/30/13 13:37	04/01/13 16:00	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	11400		200	mg/L			04/06/13 20:37	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	206		0.100	mg/L		04/02/13 12:54	04/03/13 17:15	1
Arsenic	0.162		0.0100	mg/L		04/02/13 12:54	04/03/13 17:15	1
Chromium	1.10		0.00500	mg/L		04/02/13 12:54	04/03/13 17:15	1
Copper	0.0102		0.0100	mg/L		04/02/13 12:54	04/03/13 17:15	1
Iron	0.437		0.100	mg/L		04/02/13 12:54	04/03/13 17:15	1
Lead	0.0426		0.00500	mg/L		04/02/13 12:54	04/03/13 17:15	1
Manganese	0.0220		0.0150	mg/L		04/02/13 12:54	04/03/13 17:15	1
Selenium	0.0235		0.0100	mg/L		04/02/13 12:54	04/03/13 17:15	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 22:43	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 22:43	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 22:43	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 22:43	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 22:43	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 22:43	1
2-Hexanone	ND		10.0	ug/L			04/01/13 22:43	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 22:43	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 22:43	1
Acetone	ND		50.0	ug/L			04/01/13 22:43	1
Benzene	ND		1.00	ug/L			04/01/13 22:43	1
Bromobenzene	ND		1.00	ug/L			04/01/13 22:43	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 22:43	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 22:43	1
Bromoform	ND		1.00	ug/L			04/01/13 22:43	1
Bromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 22:43	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 22:43	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 22:43	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Chloroethane	ND		1.00	ug/L			04/01/13 22:43	1
Chloroform	ND		1.00	ug/L			04/01/13 22:43	1
Chloromethane	ND		1.00	ug/L			04/01/13 22:43	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
Dibromomethane	ND		1.00	ug/L			04/01/13 22:43	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 22:43	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 22:43	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 22:43	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 22:43	1
Naphthalene	5.85		5.00	ug/L			04/01/13 22:43	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 22:43	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Styrene	ND		1.00	ug/L			04/01/13 22:43	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 22:43	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 22:43	1
Toluene	ND		1.00	ug/L			04/01/13 22:43	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 22:43	1
Trichloroethene	ND		1.00	ug/L			04/01/13 22:43	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 22:43	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 22:43	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 22:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				04/01/13 22:43	1
4-Bromofluorobenzene (Surr)	99		70 - 130				04/01/13 22:43	1
Dibromofluoromethane (Surr)	101		70 - 130				04/01/13 22:43	1
Toluene-d8 (Surr)	97		70 - 130				04/01/13 22:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120			03/30/13 14:44	04/03/13 00:33	1
Terphenyl-d14 (Surr)	46		13 - 120			03/30/13 14:44	04/03/13 00:33	1
Nitrobenzene-d5 (Surr)	42		27 - 120			03/30/13 14:44	04/03/13 00:33	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 02:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/03/13 02:08	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	592		100	ug/L		03/30/13 13:37	04/01/13 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	104		50 - 150	03/30/13 13:37	04/01/13 16:17	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	114		5.00	mg/L			04/06/13 20:56	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.484		0.100	mg/L		04/02/13 12:54	04/03/13 17:19	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:19	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:19	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:19	1
Iron	0.397		0.100	mg/L		04/02/13 12:54	04/03/13 17:19	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:19	1
Manganese	0.580		0.0150	mg/L		04/02/13 12:54	04/03/13 17:19	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:19	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 17:46	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 17:46	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 17:46	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 17:46	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 17:46	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:46	1
2-Hexanone	ND		10.0	ug/L			04/01/13 17:46	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 17:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 17:46	1
Acetone	ND		50.0	ug/L			04/01/13 17:46	1
Benzene	ND		1.00	ug/L			04/01/13 17:46	1
Bromobenzene	ND		1.00	ug/L			04/01/13 17:46	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 17:46	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 17:46	1
Bromoform	ND		1.00	ug/L			04/01/13 17:46	1
Bromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 17:46	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 17:46	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 17:46	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Chloroethane	ND		1.00	ug/L			04/01/13 17:46	1
Chloroform	ND		1.00	ug/L			04/01/13 17:46	1
Chloromethane	ND		1.00	ug/L			04/01/13 17:46	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
Dibromomethane	ND		1.00	ug/L			04/01/13 17:46	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 17:46	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 17:46	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 17:46	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 17:46	1
Naphthalene	ND		5.00	ug/L			04/01/13 17:46	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 17:46	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Styrene	ND		1.00	ug/L			04/01/13 17:46	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 17:46	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 17:46	1
Toluene	ND		1.00	ug/L			04/01/13 17:46	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 17:46	1
Trichloroethene	ND		1.00	ug/L			04/01/13 17:46	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 17:46	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 17:46	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 17:46	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/01/13 17:46	1
Dibromofluoromethane (Surr)	105		70 - 130		04/01/13 17:46	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 17:46	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 23:11	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2,4-Trimethylbenzene	36.5		1.00	ug/L			04/01/13 23:11	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 23:11	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 23:11	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,3,5-Trimethylbenzene	7.02		1.00	ug/L			04/01/13 23:11	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:11	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 23:11	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:11	1
2-Hexanone	ND		10.0	ug/L			04/01/13 23:11	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 23:11	1
Acetone	174		50.0	ug/L			04/01/13 23:11	1
Benzene	12.8		1.00	ug/L			04/01/13 23:11	1
Bromobenzene	ND		1.00	ug/L			04/01/13 23:11	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 23:11	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 23:11	1
Bromoform	ND		1.00	ug/L			04/01/13 23:11	1
Bromomethane	1.30		1.00	ug/L			04/01/13 23:11	1
Carbon disulfide	16.4		1.00	ug/L			04/01/13 23:11	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 23:11	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 23:11	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 23:11	1
Chloroethane	ND		1.00	ug/L			04/01/13 23:11	1
Chloroform	ND		1.00	ug/L			04/01/13 23:11	1
Chloromethane	4.19		1.00	ug/L			04/01/13 23:11	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
Dibromomethane	ND		1.00	ug/L			04/01/13 23:11	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 23:11	1
Ethylbenzene	42.5		1.00	ug/L			04/01/13 23:11	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 23:11	1
Isopropylbenzene	7.34		1.00	ug/L			04/01/13 23:11	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 23:11	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 23:11	1
Naphthalene	1480		250	ug/L			04/03/13 00:46	50
n-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
N-Propylbenzene	2.38		1.00	ug/L			04/01/13 23:11	1
p-Isopropyltoluene	1.26		1.00	ug/L			04/01/13 23:11	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
Styrene	ND		1.00	ug/L			04/01/13 23:11	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 23:11	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 23:11	1
Toluene	2.43		1.00	ug/L			04/01/13 23:11	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:11	1
Trichloroethene	ND		1.00	ug/L			04/01/13 23:11	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 23:11	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 23:11	1
Xylenes, Total	44.0		3.00	ug/L			04/01/13 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/01/13 23:11	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/03/13 00:46	50
4-Bromofluorobenzene (Surr)	99		70 - 130		04/01/13 23:11	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/03/13 00:46	50
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 23:11	1
Dibromofluoromethane (Surr)	98		70 - 130		04/03/13 00:46	50
Toluene-d8 (Surr)	95		70 - 130		04/01/13 23:11	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 00:46	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	28.5		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Phenanthrene	10.4		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Fluorene	10.1		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 00:56	1
Naphthalene	886		19.0	ug/L		03/30/13 14:44	04/04/13 20:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	41		29 - 120	03/30/13 14:44	04/03/13 00:56	1
Terphenyl-d14 (Surr)	37		13 - 120	03/30/13 14:44	04/03/13 00:56	1
Nitrobenzene-d5 (Surr)	43		27 - 120	03/30/13 14:44	04/03/13 00:56	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			04/03/13 04:39	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	95		50 - 150				04/03/13 04:39	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5810		990	ug/L		03/30/13 13:37	04/02/13 15:05	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	68		50 - 150			03/30/13 13:37	04/02/13 15:05	10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	18700		500	mg/L			04/06/13 21:15	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.0		1.00	mg/L		04/02/13 12:54	04/04/13 10:27	10
Arsenic	ND		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10
Chromium	0.350		0.0500	mg/L		04/02/13 12:54	04/04/13 10:27	10
Copper	0.664		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10
Iron	2.58		1.00	mg/L		04/02/13 12:54	04/04/13 10:27	10
Lead	ND		0.0500	mg/L		04/02/13 12:54	04/04/13 10:27	10
Manganese	72.7		0.150	mg/L		04/02/13 12:54	04/04/13 10:27	10
Selenium	0.103		0.100	mg/L		04/02/13 12:54	04/04/13 10:27	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 18:13	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 18:13	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 18:13	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:13	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 18:13	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:13	1
2-Hexanone	ND		10.0	ug/L			04/01/13 18:13	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 18:13	1
Acetone	ND		50.0	ug/L			04/01/13 18:13	1
Benzene	ND		1.00	ug/L			04/01/13 18:13	1
Bromobenzene	ND		1.00	ug/L			04/01/13 18:13	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 18:13	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 18:13	1
Bromoform	ND		1.00	ug/L			04/01/13 18:13	1
Bromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 18:13	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 18:13	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 18:13	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Chloroethane	ND		1.00	ug/L			04/01/13 18:13	1
Chloroform	ND		1.00	ug/L			04/01/13 18:13	1
Chloromethane	ND		1.00	ug/L			04/01/13 18:13	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
Dibromomethane	ND		1.00	ug/L			04/01/13 18:13	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 18:13	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 18:13	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 18:13	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 18:13	1
Naphthalene	ND		5.00	ug/L			04/01/13 18:13	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 18:13	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Styrene	ND		1.00	ug/L			04/01/13 18:13	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 18:13	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 18:13	1
Toluene	ND		1.00	ug/L			04/01/13 18:13	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:13	1
Trichloroethene	ND		1.00	ug/L			04/01/13 18:13	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 18:13	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 18:13	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/01/13 18:13	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 18:13	1
Dibromofluoromethane (Surr)	102		70 - 130		04/01/13 18:13	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 18:13	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 23:38	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2,4-Trimethylbenzene	31.0		1.00	ug/L			04/01/13 23:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 23:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 23:38	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,3,5-Trimethylbenzene	7.33		1.00	ug/L			04/01/13 23:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 23:38	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 23:38	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:38	1
2-Hexanone	ND		10.0	ug/L			04/01/13 23:38	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 23:38	1
Acetone	ND		50.0	ug/L			04/01/13 23:38	1
Benzene	7.04		1.00	ug/L			04/01/13 23:38	1
Bromobenzene	ND		1.00	ug/L			04/01/13 23:38	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 23:38	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 23:38	1
Bromoform	ND		1.00	ug/L			04/01/13 23:38	1
Bromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Carbon disulfide	4.49		1.00	ug/L			04/01/13 23:38	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 23:38	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 23:38	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Chloroethane	ND		1.00	ug/L			04/01/13 23:38	1
Chloroform	ND		1.00	ug/L			04/01/13 23:38	1
Chloromethane	ND		1.00	ug/L			04/01/13 23:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
Dibromomethane	ND		1.00	ug/L			04/01/13 23:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 23:38	1
Ethylbenzene	15.6		1.00	ug/L			04/01/13 23:38	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 23:38	1
Isopropylbenzene	5.27		1.00	ug/L			04/01/13 23:38	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 23:38	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 23:38	1
Naphthalene	464		25.0	ug/L			04/03/13 01:13	5
n-Butylbenzene	2.35		1.00	ug/L			04/01/13 23:38	1
N-Propylbenzene	2.51		1.00	ug/L			04/01/13 23:38	1
p-Isopropyltoluene	1.00		1.00	ug/L			04/01/13 23:38	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 23:38	1
Styrene	ND		1.00	ug/L			04/01/13 23:38	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 23:38	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 23:38	1
Toluene	ND		1.00	ug/L			04/01/13 23:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 23:38	1
Trichloroethene	ND		1.00	ug/L			04/01/13 23:38	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 23:38	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 23:38	1
Xylenes, Total	12.7		3.00	ug/L			04/01/13 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/01/13 23:38	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/03/13 01:13	5
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 23:38	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/03/13 01:13	5
Dibromofluoromethane (Surr)	99		70 - 130		04/01/13 23:38	1
Dibromofluoromethane (Surr)	100		70 - 130		04/03/13 01:13	5
Toluene-d8 (Surr)	98		70 - 130		04/01/13 23:38	1
Toluene-d8 (Surr)	95		70 - 130		04/03/13 01:13	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	45.1		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Acenaphthylene	3.02		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Anthracene	3.58		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Pyrene	3.53		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Phenanthrene	11.1		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Fluoranthene	3.34		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Fluorene	17.5		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1
Naphthalene	12.2		1.90	ug/L		03/30/13 14:44	04/03/13 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		29 - 120	03/30/13 14:44	04/03/13 01:18	1
Terphenyl-d14 (Surr)	61		13 - 120	03/30/13 14:44	04/03/13 01:18	1
Nitrobenzene-d5 (Surr)	58		27 - 120	03/30/13 14:44	04/03/13 01:18	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	165		100	ug/L			04/03/13 02:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	98		50 - 150				04/03/13 02:38	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	3120		400	ug/L		03/30/13 13:37	04/02/13 15:21	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	76		50 - 150			03/30/13 13:37	04/02/13 15:21	4

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	432		10.0	mg/L			04/06/13 21:34	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.46		0.100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:39	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Iron	4.04		0.100	mg/L		04/02/13 12:54	04/03/13 17:39	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:39	1
Manganese	1.68		0.0150	mg/L		04/02/13 12:54	04/03/13 17:39	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:39	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 18:40	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 18:40	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 18:40	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 18:40	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 18:40	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:40	1
2-Hexanone	ND		10.0	ug/L			04/01/13 18:40	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 18:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 18:40	1
Acetone	ND		50.0	ug/L			04/01/13 18:40	1
Benzene	ND		1.00	ug/L			04/01/13 18:40	1
Bromobenzene	ND		1.00	ug/L			04/01/13 18:40	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 18:40	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 18:40	1
Bromoform	ND		1.00	ug/L			04/01/13 18:40	1
Bromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 18:40	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 18:40	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 18:40	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Chloroethane	ND		1.00	ug/L			04/01/13 18:40	1
Chloroform	ND		1.00	ug/L			04/01/13 18:40	1
Chloromethane	ND		1.00	ug/L			04/01/13 18:40	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
Dibromomethane	ND		1.00	ug/L			04/01/13 18:40	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 18:40	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 18:40	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 18:40	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 18:40	1
Naphthalene	ND		5.00	ug/L			04/01/13 18:40	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 18:40	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Styrene	ND		1.00	ug/L			04/01/13 18:40	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 18:40	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 18:40	1
Toluene	ND		1.00	ug/L			04/01/13 18:40	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 18:40	1
Trichloroethene	ND		1.00	ug/L			04/01/13 18:40	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 18:40	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 18:40	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				04/01/13 18:40	1
4-Bromofluorobenzene (Surr)	101		70 - 130				04/01/13 18:40	1
Dibromofluoromethane (Surr)	102		70 - 130				04/01/13 18:40	1
Toluene-d8 (Surr)	97		70 - 130				04/01/13 18:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 22:03	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 22:03	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2,4-Trimethylbenzene	9.08		1.00	ug/L			04/02/13 22:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 22:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 22:03	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,3,5-Trimethylbenzene	3.61		1.00	ug/L			04/02/13 22:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 22:03	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 22:03	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:03	1
2-Hexanone	ND		10.0	ug/L			04/02/13 22:03	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 22:03	1
Acetone	ND		50.0	ug/L			04/02/13 22:03	1
Benzene	ND		1.00	ug/L			04/02/13 22:03	1
Bromobenzene	ND		1.00	ug/L			04/02/13 22:03	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 22:03	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 22:03	1
Bromoform	ND		1.00	ug/L			04/02/13 22:03	1
Bromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 22:03	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 22:03	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 22:03	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Chloroethane	ND		1.00	ug/L			04/02/13 22:03	1
Chloroform	ND		1.00	ug/L			04/02/13 22:03	1
Chloromethane	ND		1.00	ug/L			04/02/13 22:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
Dibromomethane	ND		1.00	ug/L			04/02/13 22:03	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			04/02/13 22:03	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 22:03	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 22:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 22:03	1
Naphthalene	65.1		5.00	ug/L			04/02/13 22:03	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 22:03	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Styrene	ND		1.00	ug/L			04/02/13 22:03	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 22:03	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 22:03	1
Toluene	ND		1.00	ug/L			04/02/13 22:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 22:03	1
Trichloroethene	ND		1.00	ug/L			04/02/13 22:03	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 22:03	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 22:03	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				04/02/13 22:03	1
4-Bromofluorobenzene (Surr)	94		70 - 130				04/02/13 22:03	1
Dibromofluoromethane (Surr)	105		70 - 130				04/02/13 22:03	1
Toluene-d8 (Surr)	96		70 - 130				04/02/13 22:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	8.54		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Pyrene	1.92		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 01:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120			03/30/13 14:44	04/03/13 01:41	1
Terphenyl-d14 (Surr)	56		13 - 120			03/30/13 14:44	04/03/13 01:41	1
Nitrobenzene-d5 (Surr)	55		27 - 120			03/30/13 14:44	04/03/13 01:41	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 03:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150		04/03/13 03:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	709		100	ug/L		03/30/13 13:37	04/01/13 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150	03/30/13 13:37	04/01/13 17:06	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	122		5.00	mg/L			04/06/13 21:53	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.843		0.100	mg/L		04/02/13 12:54	04/03/13 17:42	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:42	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:42	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:42	1
Iron	0.675		0.100	mg/L		04/02/13 12:54	04/03/13 17:42	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:42	1
Manganese	2.23		0.0150	mg/L		04/02/13 12:54	04/03/13 17:42	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 17:42	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 00:32	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2,4-Trimethylbenzene	3.41		1.00	ug/L			04/02/13 00:32	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 00:32	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 00:32	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:32	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 00:32	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:32	1
2-Hexanone	ND		10.0	ug/L			04/02/13 00:32	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:32	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 00:32	1
Acetone	130		50.0	ug/L			04/02/13 00:32	1
Benzene	ND		1.00	ug/L			04/02/13 00:32	1
Bromobenzene	ND		1.00	ug/L			04/02/13 00:32	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 00:32	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 00:32	1
Bromoform	ND		1.00	ug/L			04/02/13 00:32	1
Bromomethane	30.5		1.00	ug/L			04/02/13 00:32	1
Carbon disulfide	1.97		1.00	ug/L			04/02/13 00:32	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 00:32	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 00:32	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 00:32	1
Chloroethane	ND		1.00	ug/L			04/02/13 00:32	1
Chloroform	ND		1.00	ug/L			04/02/13 00:32	1
Chloromethane	36.9		1.00	ug/L			04/02/13 00:32	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
Dibromomethane	ND		1.00	ug/L			04/02/13 00:32	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 00:32	1
Ethylbenzene	4.12		1.00	ug/L			04/02/13 00:32	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 00:32	1
Isopropylbenzene	1.80		1.00	ug/L			04/02/13 00:32	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 00:32	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 00:32	1
Naphthalene	208		25.0	ug/L			04/03/13 01:40	5
n-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
N-Propylbenzene	1.00		1.00	ug/L			04/02/13 00:32	1
p-Isopropyltoluene	1.25		1.00	ug/L			04/02/13 00:32	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
Styrene	ND		1.00	ug/L			04/02/13 00:32	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 00:32	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 00:32	1
Toluene	ND		1.00	ug/L			04/02/13 00:32	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:32	1
Trichloroethene	ND		1.00	ug/L			04/02/13 00:32	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 00:32	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 00:32	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/02/13 00:32	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/03/13 01:40	5
4-Bromofluorobenzene (Surr)	102		70 - 130		04/02/13 00:32	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/03/13 01:40	5
Dibromofluoromethane (Surr)	98		70 - 130		04/02/13 00:32	1
Dibromofluoromethane (Surr)	104		70 - 130		04/03/13 01:40	5
Toluene-d8 (Surr)	96		70 - 130		04/02/13 00:32	1
Toluene-d8 (Surr)	94		70 - 130		04/03/13 01:40	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	23.2		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Phenanthrene	20.1		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Fluoranthene	2.36		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Fluorene	10.7		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1
Naphthalene	75.1		1.90	ug/L		03/30/13 14:44	04/03/13 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120	03/30/13 14:44	04/03/13 17:24	1
Terphenyl-d14 (Surr)	45		13 - 120	03/30/13 14:44	04/03/13 17:24	1
Nitrobenzene-d5 (Surr)	39		27 - 120	03/30/13 14:44	04/03/13 17:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/03/13 03:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	98		50 - 150				04/03/13 03:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1620		200	ug/L		03/30/13 13:37	04/02/13 13:54	2
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	121		50 - 150			03/30/13 13:37	04/02/13 13:54	2

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2660		100	mg/L			04/09/13 21:33	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3		10.0	mg/L		04/02/13 12:54	04/04/13 10:31	100
Arsenic	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100
Chromium	ND		0.500	mg/L		04/02/13 12:54	04/04/13 10:31	100
Copper	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100
Iron	ND		10.0	mg/L		04/02/13 12:54	04/04/13 10:31	100
Lead	ND		0.500	mg/L		04/02/13 12:54	04/04/13 10:31	100
Manganese	7.43		1.50	mg/L		04/02/13 12:54	04/04/13 10:31	100
Selenium	ND		1.00	mg/L		04/02/13 12:54	04/04/13 10:31	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 19:07	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 19:07	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 19:07	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:07	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 19:07	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:07	1
2-Hexanone	ND		10.0	ug/L			04/01/13 19:07	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 19:07	1
Acetone	ND		50.0	ug/L			04/01/13 19:07	1
Benzene	ND		1.00	ug/L			04/01/13 19:07	1
Bromobenzene	ND		1.00	ug/L			04/01/13 19:07	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 19:07	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 19:07	1
Bromoform	ND		1.00	ug/L			04/01/13 19:07	1
Bromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 19:07	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 19:07	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 19:07	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Chloroethane	ND		1.00	ug/L			04/01/13 19:07	1
Chloroform	ND		1.00	ug/L			04/01/13 19:07	1
Chloromethane	ND		1.00	ug/L			04/01/13 19:07	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
Dibromomethane	ND		1.00	ug/L			04/01/13 19:07	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 19:07	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 19:07	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 19:07	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 19:07	1
Naphthalene	ND		5.00	ug/L			04/01/13 19:07	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 19:07	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Styrene	ND		1.00	ug/L			04/01/13 19:07	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 19:07	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 19:07	1
Toluene	ND		1.00	ug/L			04/01/13 19:07	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:07	1
Trichloroethene	ND		1.00	ug/L			04/01/13 19:07	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 19:07	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 19:07	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130				04/01/13 19:07	1
4-Bromofluorobenzene (Surr)	101		70 - 130				04/01/13 19:07	1
Dibromofluoromethane (Surr)	101		70 - 130				04/01/13 19:07	1
Toluene-d8 (Surr)	96		70 - 130				04/01/13 19:07	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 19:34	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 19:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 19:34	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 19:34	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 19:34	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:34	1
2-Hexanone	ND		10.0	ug/L			04/01/13 19:34	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 19:34	1
Acetone	ND		50.0	ug/L			04/01/13 19:34	1
Benzene	ND		1.00	ug/L			04/01/13 19:34	1
Bromobenzene	ND		1.00	ug/L			04/01/13 19:34	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 19:34	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 19:34	1
Bromoform	ND		1.00	ug/L			04/01/13 19:34	1
Bromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 19:34	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 19:34	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 19:34	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Chloroethane	ND		1.00	ug/L			04/01/13 19:34	1
Chloroform	ND		1.00	ug/L			04/01/13 19:34	1
Chloromethane	ND		1.00	ug/L			04/01/13 19:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
Dibromomethane	ND		1.00	ug/L			04/01/13 19:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 19:34	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 19:34	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 19:34	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 19:34	1
Naphthalene	ND		5.00	ug/L			04/01/13 19:34	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 19:34	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Styrene	ND		1.00	ug/L			04/01/13 19:34	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 19:34	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 19:34	1
Toluene	ND		1.00	ug/L			04/01/13 19:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 19:34	1
Trichloroethene	ND		1.00	ug/L			04/01/13 19:34	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 19:34	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 19:34	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/01/13 19:34	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 19:34	1
Dibromofluoromethane (Surr)	104		70 - 130		04/01/13 19:34	1
Toluene-d8 (Surr)	96		70 - 130		04/01/13 19:34	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 00:59	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2,4-Trimethylbenzene	1.14		1.00	ug/L			04/02/13 00:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 00:59	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 00:59	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 00:59	1
2-Butanone (MEK)	73.2		50.0	ug/L			04/02/13 00:59	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:59	1
2-Hexanone	ND		10.0	ug/L			04/02/13 00:59	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 00:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 00:59	1
Acetone	881		50.0	ug/L			04/02/13 00:59	1
Benzene	1.59		1.00	ug/L			04/02/13 00:59	1
Bromobenzene	ND		1.00	ug/L			04/02/13 00:59	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 00:59	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 00:59	1
Bromoform	ND		1.00	ug/L			04/02/13 00:59	1
Bromomethane	51.4		1.00	ug/L			04/02/13 00:59	1
Carbon disulfide	2.80		1.00	ug/L			04/02/13 00:59	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 00:59	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 00:59	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 00:59	1
Chloroethane	ND		1.00	ug/L			04/02/13 00:59	1
Chloroform	ND		1.00	ug/L			04/02/13 00:59	1
Chloromethane	75.3		1.00	ug/L			04/02/13 00:59	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
Dibromomethane	ND		1.00	ug/L			04/02/13 00:59	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 00:59	1
Ethylbenzene	5.30		1.00	ug/L			04/02/13 00:59	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 00:59	1
Isopropylbenzene	2.31		1.00	ug/L			04/02/13 00:59	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 00:59	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 00:59	1
Naphthalene	226		25.0	ug/L			04/03/13 02:08	5
n-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
N-Propylbenzene	1.10		1.00	ug/L			04/02/13 00:59	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 00:59	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
Styrene	ND		1.00	ug/L			04/02/13 00:59	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 00:59	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 00:59	1
Toluene	ND		1.00	ug/L			04/02/13 00:59	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 00:59	1
Trichloroethene	ND		1.00	ug/L			04/02/13 00:59	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 00:59	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 00:59	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/02/13 00:59	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/03/13 02:08	5
4-Bromofluorobenzene (Surr)	101		70 - 130		04/02/13 00:59	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/03/13 02:08	5
Dibromofluoromethane (Surr)	100		70 - 130		04/02/13 00:59	1
Dibromofluoromethane (Surr)	101		70 - 130		04/03/13 02:08	5
Toluene-d8 (Surr)	97		70 - 130		04/02/13 00:59	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 02:08	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.95		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Phenanthrene	14.7		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Fluorene	7.09		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1
Naphthalene	73.4		1.90	ug/L		03/30/13 14:44	04/03/13 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	48		29 - 120	03/30/13 14:44	04/03/13 17:47	1
Terphenyl-d14 (Surr)	48		13 - 120	03/30/13 14:44	04/03/13 17:47	1
Nitrobenzene-d5 (Surr)	41		27 - 120	03/30/13 14:44	04/03/13 17:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 01:52	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>106</i>		<i>50 - 150</i>				<i>04/02/13 01:52</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1760		100	ug/L		03/30/13 13:37	04/01/13 17:38	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>102</i>		<i>50 - 150</i>			<i>03/30/13 13:37</i>	<i>04/01/13 17:38</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	16200		500	mg/L			04/06/13 23:09	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14.8		0.100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Arsenic	0.0258		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Chromium	1.13		0.00500	mg/L		04/02/13 12:54	04/03/13 17:50	1
Copper	0.0223		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Iron	ND		0.100	mg/L		04/02/13 12:54	04/03/13 17:50	1
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 17:50	1
Manganese	1.84		0.0150	mg/L		04/02/13 12:54	04/03/13 17:50	1
Selenium	0.0683		0.0100	mg/L		04/02/13 12:54	04/03/13 17:50	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 06:50	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 06:50	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 06:50	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 06:50	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:50	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 06:50	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:50	1
2-Hexanone	ND		10.0	ug/L			04/02/13 06:50	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 06:50	1
Acetone	ND		50.0	ug/L			04/02/13 06:50	1
Benzene	ND		1.00	ug/L			04/02/13 06:50	1
Bromobenzene	ND		1.00	ug/L			04/02/13 06:50	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 06:50	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 06:50	1
Bromoform	ND		1.00	ug/L			04/02/13 06:50	1
Bromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 06:50	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 06:50	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 06:50	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Chloroethane	ND		1.00	ug/L			04/02/13 06:50	1
Chloroform	ND		1.00	ug/L			04/02/13 06:50	1
Chloromethane	ND		1.00	ug/L			04/02/13 06:50	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:50	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
Dibromomethane	ND		1.00	ug/L			04/02/13 06:50	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 06:50	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 06:50	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 06:50	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 06:50	1
Naphthalene	ND		5.00	ug/L			04/02/13 06:50	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 06:50	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Styrene	ND		1.00	ug/L			04/02/13 06:50	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 06:50	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 06:50	1
Toluene	ND		1.00	ug/L			04/02/13 06:50	1
trans-1,2-Dichloroethene	ND	*	1.00	ug/L			04/02/13 06:50	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:50	1
Trichloroethene	ND		1.00	ug/L			04/02/13 06:50	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 06:50	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 06:50	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 06:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				04/02/13 06:50	1
4-Bromofluorobenzene (Surr)	101		70 - 130				04/02/13 06:50	1
Dibromofluoromethane (Surr)	102		70 - 130				04/02/13 06:50	1
Toluene-d8 (Surr)	95		70 - 130				04/02/13 06:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120			03/30/13 14:44	04/03/13 18:55	1
Terphenyl-d14 (Surr)	56		13 - 120			03/30/13 14:44	04/03/13 18:55	1
Nitrobenzene-d5 (Surr)	54		27 - 120			03/30/13 14:44	04/03/13 18:55	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 02:20	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		04/02/13 02:20	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	150		95.2	ug/L	-	03/30/13 13:37	04/01/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	68		50 - 150	03/30/13 13:37	04/01/13 17:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	237		5.00	mg/L	-		04/06/13 23:28	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.17		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Chromium	0.0301		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Iron	ND		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Lead	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Manganese	0.0952		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:53	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 07:17	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 07:17	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 07:17	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 07:17	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:17	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 07:17	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:17	1
2-Hexanone	ND		10.0	ug/L			04/02/13 07:17	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 07:17	1
Acetone	ND		50.0	ug/L			04/02/13 07:17	1
Benzene	ND		1.00	ug/L			04/02/13 07:17	1
Bromobenzene	ND		1.00	ug/L			04/02/13 07:17	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 07:17	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 07:17	1
Bromoform	ND		1.00	ug/L			04/02/13 07:17	1
Bromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 07:17	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 07:17	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 07:17	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Chloroethane	ND		1.00	ug/L			04/02/13 07:17	1
Chloroform	ND		1.00	ug/L			04/02/13 07:17	1
Chloromethane	ND		1.00	ug/L			04/02/13 07:17	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 07:17	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
Dibromomethane	ND		1.00	ug/L			04/02/13 07:17	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 07:17	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 07:17	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 07:17	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 07:17	1
Naphthalene	ND		5.00	ug/L			04/02/13 07:17	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 07:17	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Styrene	ND		1.00	ug/L			04/02/13 07:17	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 07:17	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 07:17	1
Toluene	ND		1.00	ug/L			04/02/13 07:17	1
trans-1,2-Dichloroethene	ND *		1.00	ug/L			04/02/13 07:17	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:17	1
Trichloroethene	ND		1.00	ug/L			04/02/13 07:17	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 07:17	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 07:17	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 07:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130				04/02/13 07:17	1
4-Bromofluorobenzene (Surr)	100		70 - 130				04/02/13 07:17	1
Dibromofluoromethane (Surr)	103		70 - 130				04/02/13 07:17	1
Toluene-d8 (Surr)	97		70 - 130				04/02/13 07:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Acenaphthylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[a]anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[a]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[b]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[g,h,i]perylene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Benzo[k]fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Phenanthrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Chrysene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Fluoranthene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Fluorene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Indeno[1,2,3-cd]pyrene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120			03/30/13 14:44	04/03/13 19:18	1
Terphenyl-d14 (Surr)	50		13 - 120			03/30/13 14:44	04/03/13 19:18	1
Nitrobenzene-d5 (Surr)	39		27 - 120			03/30/13 14:44	04/03/13 19:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 02:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		04/02/13 02:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	465		97.1	ug/L	-	03/30/13 13:37	04/01/13 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		50 - 150	03/30/13 13:37	04/01/13 18:11	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	125		5.00	mg/L	-		04/06/13 23:47	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.24		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Arsenic	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Chromium	ND		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Copper	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Iron	1.71		0.100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Lead	0.0115		0.00500	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Manganese	1.03		0.0150	mg/L	-	04/02/13 12:54	04/03/13 17:57	1
Selenium	ND		0.0100	mg/L	-	04/02/13 12:54	04/03/13 17:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,1-Trichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,1,2,2-Tetrachloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1,2-Trichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,1-Dichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
Diisopropyl ether	ND		40.0	ug/L			04/03/13 20:14	20
1,1-Dichloroethene	ND	*	20.0	ug/L			04/03/13 20:14	20
1,1-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,3-Trichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,3-Trichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,2,4-Trichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2,4-Trimethylbenzene	437		20.0	ug/L			04/03/13 20:14	20
1,2-Dibromo-3-Chloropropane	ND		200	ug/L			04/03/13 20:14	20
1,2-Dibromoethane (EDB)	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichloroethane	ND		20.0	ug/L			04/03/13 20:14	20
1,2-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,3,5-Trimethylbenzene	142		20.0	ug/L			04/03/13 20:14	20
1,3-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
1,3-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
1,4-Dichlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
2,2-Dichloropropane	ND		20.0	ug/L			04/03/13 20:14	20
2-Butanone (MEK)	ND		1000	ug/L			04/03/13 20:14	20
2-Chlorotoluene	ND		20.0	ug/L			04/03/13 20:14	20
2-Hexanone	ND		200	ug/L			04/03/13 20:14	20
4-Chlorotoluene	ND		20.0	ug/L			04/03/13 20:14	20
4-Methyl-2-pentanone (MIBK)	ND		200	ug/L			04/03/13 20:14	20
Acetone	ND		1000	ug/L			04/03/13 20:14	20
Benzene	34.5		20.0	ug/L			04/03/13 20:14	20
Bromobenzene	ND		20.0	ug/L			04/03/13 20:14	20
Bromochloromethane	ND		20.0	ug/L			04/03/13 20:14	20
Bromodichloromethane	ND		20.0	ug/L			04/03/13 20:14	20
Bromoform	ND		20.0	ug/L			04/03/13 20:14	20
Bromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Carbon disulfide	ND		20.0	ug/L			04/03/13 20:14	20
Carbon tetrachloride	ND		20.0	ug/L			04/03/13 20:14	20
Chlorobenzene	ND		20.0	ug/L			04/03/13 20:14	20
Chlorodibromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Chloroethane	ND		20.0	ug/L			04/03/13 20:14	20
Chloroform	ND		20.0	ug/L			04/03/13 20:14	20
Chloromethane	ND		20.0	ug/L			04/03/13 20:14	20
cis-1,2-Dichloroethene	26.2		20.0	ug/L			04/03/13 20:14	20
cis-1,3-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
Dibromomethane	ND		20.0	ug/L			04/03/13 20:14	20
Dichlorodifluoromethane	ND		20.0	ug/L			04/03/13 20:14	20
Ethylbenzene	124		20.0	ug/L			04/03/13 20:14	20
Hexachlorobutadiene	ND		40.0	ug/L			04/03/13 20:14	20
Isopropylbenzene	34.9		20.0	ug/L			04/03/13 20:14	20
Methyl tert-butyl ether	ND		20.0	ug/L			04/03/13 20:14	20

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		100	ug/L			04/03/13 20:14	20
Naphthalene	3040		100	ug/L			04/09/13 02:33	20
n-Butylbenzene	44.5		20.0	ug/L			04/03/13 20:14	20
N-Propylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
p-Isopropyltoluene	21.9		20.0	ug/L			04/03/13 20:14	20
sec-Butylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
Styrene	ND		20.0	ug/L			04/03/13 20:14	20
tert-Butylbenzene	ND		20.0	ug/L			04/03/13 20:14	20
Tetrachloroethene	ND		20.0	ug/L			04/03/13 20:14	20
Toluene	77.5		20.0	ug/L			04/03/13 20:14	20
trans-1,2-Dichloroethene	ND		20.0	ug/L			04/03/13 20:14	20
trans-1,3-Dichloropropene	ND		20.0	ug/L			04/03/13 20:14	20
Trichloroethene	ND		20.0	ug/L			04/09/13 02:33	20
Trichlorofluoromethane	ND		20.0	ug/L			04/03/13 20:14	20
Vinyl chloride	ND		20.0	ug/L			04/03/13 20:14	20
Xylenes, Total	277		60.0	ug/L			04/03/13 20:14	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/03/13 20:14	20
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/09/13 02:33	20
4-Bromofluorobenzene (Surr)	98		70 - 130		04/03/13 20:14	20
4-Bromofluorobenzene (Surr)	103		70 - 130		04/09/13 02:33	20
Dibromofluoromethane (Surr)	89		70 - 130		04/03/13 20:14	20
Dibromofluoromethane (Surr)	95		70 - 130		04/09/13 02:33	20
Toluene-d8 (Surr)	105		70 - 130		04/03/13 20:14	20
Toluene-d8 (Surr)	94		70 - 130		04/09/13 02:33	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	879		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Acenaphthylene	79.0		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Anthracene	346		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Benzo[a]anthracene	176		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Benzo[a]pyrene	81.6		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[b]fluoranthene	80.5		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[g,h,i]perylene	45.3		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Benzo[k]fluoranthene	38.7		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Pyrene	496		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Phenanthrene	1400		38.1	ug/L		03/30/13 14:44	04/04/13 20:35	20
Chrysene	87.7		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Dibenz(a,h)anthracene	8.84		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Fluoranthene	424		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Fluorene	514		19.0	ug/L		03/30/13 14:44	04/03/13 18:32	10
Indeno[1,2,3-cd]pyrene	37.6		1.90	ug/L		03/30/13 14:44	04/03/13 18:09	1
Naphthalene	1370		38.1	ug/L		03/30/13 14:44	04/04/13 20:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	52		29 - 120	03/30/13 14:44	04/03/13 18:09	1
Terphenyl-d14 (Surr)	35		13 - 120	03/30/13 14:44	04/03/13 18:09	1
Nitrobenzene-d5 (Surr)	51		27 - 120	03/30/13 14:44	04/03/13 18:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	2220		1000	ug/L			04/02/13 16:46	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene</i>	118		50 - 150				04/02/13 16:46	10

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	109000		10000	ug/L		03/30/13 13:37	04/02/13 15:37	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surr)</i>	7367	X	50 - 150			03/30/13 13:37	04/02/13 15:37	100

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	19900		500	mg/L			04/07/13 00:06	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	583		1.00	mg/L		04/05/13 08:31	04/05/13 16:01	10
Arsenic	0.616		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10
Chromium	3.10		0.0500	mg/L		04/05/13 08:31	04/05/13 16:01	10
Copper	ND		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10
Iron	25.2		1.00	mg/L		04/05/13 08:31	04/05/13 16:01	10
Lead	0.0650		0.0500	mg/L		04/05/13 08:31	04/05/13 16:01	10
Manganese	5.75		0.150	mg/L		04/05/13 08:31	04/05/13 16:01	10
Selenium	0.125		0.100	mg/L		04/05/13 08:31	04/05/13 16:01	10

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	100000	E	10.0	umhos/cm			04/06/13 15:14	1
Oxidation Reduction Potential	430	H	3.00	mV vs. NHE			04/10/13 15:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 07:44	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 07:44	1
1,1-Dichloroethene	ND	*	1.00	ug/L			04/02/13 07:44	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2,4-Trimethylbenzene	80.5		1.00	ug/L			04/02/13 07:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 07:44	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 07:44	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,2-Dichloroethane	2.71		1.00	ug/L			04/02/13 07:44	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,3,5-Trimethylbenzene	27.6		1.00	ug/L			04/02/13 07:44	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 07:44	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 07:44	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:44	1
2-Hexanone	ND		10.0	ug/L			04/02/13 07:44	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 07:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 07:44	1
Acetone	ND		50.0	ug/L			04/02/13 07:44	1
Benzene	101		1.00	ug/L			04/02/13 07:44	1
Bromobenzene	ND		1.00	ug/L			04/02/13 07:44	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 07:44	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 07:44	1
Bromoform	ND		1.00	ug/L			04/02/13 07:44	1
Bromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Carbon disulfide	1.42		1.00	ug/L			04/02/13 07:44	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 07:44	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 07:44	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Chloroethane	ND		1.00	ug/L			04/02/13 07:44	1
Chloroform	ND		1.00	ug/L			04/02/13 07:44	1
Chloromethane	ND		1.00	ug/L			04/02/13 07:44	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 07:44	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
Dibromomethane	ND		1.00	ug/L			04/02/13 07:44	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 07:44	1
Ethylbenzene	37.7		1.00	ug/L			04/02/13 07:44	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 07:44	1
Isopropylbenzene	9.24		1.00	ug/L			04/02/13 07:44	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 07:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/02/13 07:44	1
Naphthalene	379		50.0	ug/L			04/03/13 03:29	10
n-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
N-Propylbenzene	3.97		1.00	ug/L			04/02/13 07:44	1
p-Isopropyltoluene	4.12		1.00	ug/L			04/02/13 07:44	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
Styrene	ND		1.00	ug/L			04/02/13 07:44	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 07:44	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 07:44	1
Toluene	15.8		1.00	ug/L			04/02/13 07:44	1
trans-1,2-Dichloroethene	ND *		1.00	ug/L			04/02/13 07:44	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 07:44	1
Trichloroethene	ND		1.00	ug/L			04/02/13 07:44	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 07:44	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 07:44	1
Xylenes, Total	63.3		3.00	ug/L			04/02/13 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/02/13 07:44	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/03/13 03:29	10
4-Bromofluorobenzene (Surr)	93		70 - 130		04/02/13 07:44	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/03/13 03:29	10
Dibromofluoromethane (Surr)	105		70 - 130		04/02/13 07:44	1
Dibromofluoromethane (Surr)	104		70 - 130		04/03/13 03:29	10
Toluene-d8 (Surr)	96		70 - 130		04/02/13 07:44	1
Toluene-d8 (Surr)	96		70 - 130		04/03/13 03:29	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	36.0		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Acenaphthylene	7.72		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Anthracene	15.3		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[a]anthracene	9.36		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[a]pyrene	7.60		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[b]fluoranthene	7.78		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[g,h,i]perylene	3.70		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Benzo[k]fluoranthene	3.11		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Pyrene	26.4		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Phenanthrene	48.7		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Chrysene	8.34		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Dibenz(a,h)anthracene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Fluoranthene	23.5		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Fluorene	20.2		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Indeno[1,2,3-cd]pyrene	3.09		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1
Naphthalene	ND		1.90	ug/L		03/30/13 14:44	04/03/13 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	38		29 - 120	03/30/13 14:44	04/03/13 19:41	1
Terphenyl-d14 (Surr)	34		13 - 120	03/30/13 14:44	04/03/13 19:41	1
Nitrobenzene-d5 (Surr)	36		27 - 120	03/30/13 14:44	04/03/13 19:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		500	ug/L			04/03/13 05:10	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	95		50 - 150				04/03/13 05:10	5

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	36900		5000	ug/L		03/30/13 13:37	04/02/13 14:26	50
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	2577	X	50 - 150			03/30/13 13:37	04/02/13 14:26	50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	848		20.0	mg/L			04/07/13 00:25	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.07		0.100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Arsenic	0.0173		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Chromium	0.0158		0.00500	mg/L		04/02/13 12:54	04/03/13 18:00	1
Copper	0.0190		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Iron	13.1		0.100	mg/L		04/02/13 12:54	04/03/13 18:00	1
Lead	0.00980		0.00500	mg/L		04/02/13 12:54	04/03/13 18:00	1
Manganese	8.31		0.0150	mg/L		04/02/13 12:54	04/03/13 18:00	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 18:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 20:01	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 20:01	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 20:01	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 20:01	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 20:01	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:01	1
2-Hexanone	ND		10.0	ug/L			04/01/13 20:01	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 20:01	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 20:01	1
Acetone	ND		50.0	ug/L			04/01/13 20:01	1
Benzene	ND		1.00	ug/L			04/01/13 20:01	1
Bromobenzene	ND		1.00	ug/L			04/01/13 20:01	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 20:01	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 20:01	1
Bromoform	ND		1.00	ug/L			04/01/13 20:01	1
Bromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 20:01	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 20:01	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 20:01	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Chloroethane	ND		1.00	ug/L			04/01/13 20:01	1
Chloroform	ND		1.00	ug/L			04/01/13 20:01	1
Chloromethane	ND		1.00	ug/L			04/01/13 20:01	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
Dibromomethane	ND		1.00	ug/L			04/01/13 20:01	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 20:01	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 20:01	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 20:01	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			04/01/13 20:01	1
Naphthalene	ND		5.00	ug/L			04/01/13 20:01	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 20:01	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Styrene	ND		1.00	ug/L			04/01/13 20:01	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 20:01	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 20:01	1
Toluene	ND		1.00	ug/L			04/01/13 20:01	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 20:01	1
Trichloroethene	ND		1.00	ug/L			04/01/13 20:01	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 20:01	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 20:01	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/01/13 20:01	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/01/13 20:01	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 20:01	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 20:01	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-69277/7

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,1-Dichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
Diisopropyl ether	ND		2.00	ug/L			04/01/13 16:24	1
1,1-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
1,1-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/01/13 16:24	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichloroethane	ND		1.00	ug/L			04/01/13 16:24	1
1,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
1,3-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
2,2-Dichloropropane	ND		1.00	ug/L			04/01/13 16:24	1
2-Butanone (MEK)	ND		50.0	ug/L			04/01/13 16:24	1
2-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:24	1
2-Hexanone	ND		10.0	ug/L			04/01/13 16:24	1
4-Chlorotoluene	ND		1.00	ug/L			04/01/13 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/01/13 16:24	1
Acetone	ND		50.0	ug/L			04/01/13 16:24	1
Benzene	ND		1.00	ug/L			04/01/13 16:24	1
Bromobenzene	ND		1.00	ug/L			04/01/13 16:24	1
Bromochloromethane	ND		1.00	ug/L			04/01/13 16:24	1
Bromodichloromethane	ND		1.00	ug/L			04/01/13 16:24	1
Bromoform	ND		1.00	ug/L			04/01/13 16:24	1
Bromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Carbon disulfide	ND		1.00	ug/L			04/01/13 16:24	1
Carbon tetrachloride	ND		1.00	ug/L			04/01/13 16:24	1
Chlorobenzene	ND		1.00	ug/L			04/01/13 16:24	1
Chlorodibromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Chloroethane	ND		1.00	ug/L			04/01/13 16:24	1
Chloroform	ND		1.00	ug/L			04/01/13 16:24	1
Chloromethane	ND		1.00	ug/L			04/01/13 16:24	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
Dibromomethane	ND		1.00	ug/L			04/01/13 16:24	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/01/13 16:24	1
Ethylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Hexachlorobutadiene	ND		2.00	ug/L			04/01/13 16:24	1
Isopropylbenzene	ND		1.00	ug/L			04/01/13 16:24	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69277/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			04/01/13 16:24	1
Methylene Chloride	ND		5.00	ug/L			04/01/13 16:24	1
Naphthalene	ND		5.00	ug/L			04/01/13 16:24	1
n-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
N-Propylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
p-Isopropyltoluene	ND		1.00	ug/L			04/01/13 16:24	1
sec-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Styrene	ND		1.00	ug/L			04/01/13 16:24	1
tert-Butylbenzene	ND		1.00	ug/L			04/01/13 16:24	1
Tetrachloroethene	ND		1.00	ug/L			04/01/13 16:24	1
Toluene	ND		1.00	ug/L			04/01/13 16:24	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/01/13 16:24	1
Trichloroethene	ND		1.00	ug/L			04/01/13 16:24	1
Trichlorofluoromethane	ND		1.00	ug/L			04/01/13 16:24	1
Vinyl chloride	ND		1.00	ug/L			04/01/13 16:24	1
Xylenes, Total	ND		3.00	ug/L			04/01/13 16:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/01/13 16:24	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/01/13 16:24	1
Dibromofluoromethane (Surr)	103		70 - 130		04/01/13 16:24	1
Toluene-d8 (Surr)	97		70 - 130		04/01/13 16:24	1

Lab Sample ID: LCS 490-69277/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.28		ug/L		105	74 - 135
1,1,1-Trichloroethane	50.0	55.43		ug/L		111	78 - 135
1,1,2,2-Tetrachloroethane	50.0	53.62		ug/L		107	69 - 131
1,1,2-Trichloroethane	50.0	50.34		ug/L		101	80 - 124
1,1-Dichloroethane	50.0	53.62		ug/L		107	78 - 125
Diisopropyl ether	50.0	53.22		ug/L		106	61 - 142
1,1-Dichloroethene	50.0	59.10		ug/L		118	79 - 124
1,1-Dichloropropene	50.0	51.93		ug/L		104	80 - 122
1,2,3-Trichlorobenzene	50.0	58.90		ug/L		118	62 - 133
1,2,3-Trichloropropane	50.0	57.99		ug/L		116	70 - 131
1,2,4-Trichlorobenzene	50.0	57.58		ug/L		115	63 - 133
1,2,4-Trimethylbenzene	50.0	49.90		ug/L		100	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	59.01		ug/L		118	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.28		ug/L		109	80 - 129
1,2-Dichlorobenzene	50.0	52.36		ug/L		105	80 - 121
1,2-Dichloroethane	50.0	55.77		ug/L		112	77 - 121
1,2-Dichloropropane	50.0	48.29		ug/L		97	75 - 120
1,3,5-Trimethylbenzene	50.0	51.31		ug/L		103	77 - 127
1,3-Dichlorobenzene	50.0	50.09		ug/L		100	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69277/3

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.97		ug/L		104	80 - 125
1,4-Dichlorobenzene	50.0	50.40		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	58.38		ug/L		117	43 - 161
2-Butanone (MEK)	250	292.0		ug/L		117	62 - 133
2-Chlorotoluene	50.0	49.54		ug/L		99	75 - 126
2-Hexanone	250	274.7		ug/L		110	60 - 142
4-Chlorotoluene	50.0	50.37		ug/L		101	75 - 130
4-Methyl-2-pentanone (MIBK)	250	276.3		ug/L		111	60 - 137
Acetone	250	302.4		ug/L		121	54 - 145
Benzene	50.0	51.24		ug/L		102	80 - 121
Bromobenzene	50.0	53.34		ug/L		107	68 - 130
Bromochloromethane	50.0	53.55		ug/L		107	78 - 129
Bromodichloromethane	50.0	58.58		ug/L		117	75 - 129
Bromoform	50.0	60.00		ug/L		120	46 - 145
Bromomethane	50.0	50.15		ug/L		100	41 - 150
Carbon disulfide	50.0	48.06		ug/L		96	77 - 126
Carbon tetrachloride	50.0	57.75		ug/L		115	64 - 147
Chlorobenzene	50.0	49.51		ug/L		99	80 - 120
Chlorodibromomethane	50.0	57.39		ug/L		115	69 - 133
Chloroethane	50.0	46.59		ug/L		93	72 - 120
Chloroform	50.0	51.89		ug/L		104	73 - 129
Chloromethane	50.0	38.20		ug/L		76	12 - 150
cis-1,2-Dichloroethene	50.0	52.02		ug/L		104	76 - 125
cis-1,3-Dichloropropene	50.0	52.70		ug/L		105	74 - 140
Dibromomethane	50.0	55.02		ug/L		110	71 - 125
Dichlorodifluoromethane	50.0	55.22		ug/L		110	37 - 127
Ethylbenzene	50.0	51.88		ug/L		104	80 - 130
Hexachlorobutadiene	50.0	51.19		ug/L		102	49 - 146
Isopropylbenzene	50.0	52.46		ug/L		105	80 - 141
Methyl tert-butyl ether	50.0	58.64		ug/L		117	72 - 133
Methylene Chloride	50.0	51.51		ug/L		103	79 - 123
Naphthalene	50.0	62.36		ug/L		125	62 - 138
n-Butylbenzene	50.0	55.68		ug/L		111	68 - 132
N-Propylbenzene	50.0	49.51		ug/L		99	75 - 129
p-Isopropyltoluene	50.0	51.50		ug/L		103	75 - 128
sec-Butylbenzene	50.0	51.53		ug/L		103	76 - 128
Styrene	50.0	53.39		ug/L		107	80 - 127
tert-Butylbenzene	50.0	50.66		ug/L		101	76 - 126
Tetrachloroethene	50.0	50.69		ug/L		101	80 - 126
Toluene	50.0	49.75		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	56.60		ug/L		113	79 - 126
trans-1,3-Dichloropropene	50.0	53.87		ug/L		108	63 - 134
Trichloroethene	50.0	51.00		ug/L		102	80 - 123
Trichlorofluoromethane	50.0	51.87		ug/L		104	65 - 124
Vinyl chloride	50.0	47.41		ug/L		95	68 - 120
Xylenes, Total	150	154.4		ug/L		103	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69277/3

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCSD 490-69277/4

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.15		ug/L		104	74 - 135	0	16
1,1,1-Trichloroethane	50.0	53.66		ug/L		107	78 - 135	3	17
1,1,1,2,2-Tetrachloroethane	50.0	53.06		ug/L		106	69 - 131	1	20
1,1,1,2-Trichloroethane	50.0	50.12		ug/L		100	80 - 124	0	15
1,1-Dichloroethane	50.0	51.59		ug/L		103	78 - 125	4	17
Diisopropyl ether	50.0	52.07		ug/L		104	61 - 142	2	50
1,1-Dichloroethene	50.0	57.95		ug/L		116	79 - 124	2	17
1,1-Dichloropropene	50.0	50.87		ug/L		102	80 - 122	2	17
1,2,3-Trichlorobenzene	50.0	59.27		ug/L		119	62 - 133	1	25
1,2,3-Trichloropropane	50.0	56.35		ug/L		113	70 - 131	3	19
1,2,4-Trichlorobenzene	50.0	57.26		ug/L		115	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	49.39		ug/L		99	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	57.39		ug/L		115	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	53.73		ug/L		107	80 - 129	1	15
1,2-Dichlorobenzene	50.0	49.36		ug/L		99	80 - 121	6	15
1,2-Dichloroethane	50.0	53.65		ug/L		107	77 - 121	4	17
1,2-Dichloropropane	50.0	47.24		ug/L		94	75 - 120	2	17
1,3,5-Trimethylbenzene	50.0	50.00		ug/L		100	77 - 127	3	17
1,3-Dichlorobenzene	50.0	48.82		ug/L		98	80 - 122	3	15
1,3-Dichloropropane	50.0	51.26		ug/L		103	80 - 125	1	14
1,4-Dichlorobenzene	50.0	49.80		ug/L		100	80 - 120	1	15
2,2-Dichloropropane	50.0	55.88		ug/L		112	43 - 161	4	18
2-Butanone (MEK)	250	285.6		ug/L		114	62 - 133	2	19
2-Chlorotoluene	50.0	48.72		ug/L		97	75 - 126	2	17
2-Hexanone	250	280.2		ug/L		112	60 - 142	2	15
4-Chlorotoluene	50.0	49.43		ug/L		99	75 - 130	2	18
4-Methyl-2-pentanone (MIBK)	250	275.6		ug/L		110	60 - 137	0	17
Acetone	250	320.9		ug/L		128	54 - 145	6	21
Benzene	50.0	50.06		ug/L		100	80 - 121	2	17
Bromobenzene	50.0	52.12		ug/L		104	68 - 130	2	20
Bromochloromethane	50.0	51.70		ug/L		103	78 - 129	4	17
Bromodichloromethane	50.0	57.12		ug/L		114	75 - 129	3	18
Bromoform	50.0	58.79		ug/L		118	46 - 145	2	16
Bromomethane	50.0	49.10		ug/L		98	41 - 150	2	50
Carbon disulfide	50.0	46.34		ug/L		93	77 - 126	4	21
Carbon tetrachloride	50.0	56.05		ug/L		112	64 - 147	3	19
Chlorobenzene	50.0	48.76		ug/L		98	80 - 120	2	14
Chlorodibromomethane	50.0	56.82		ug/L		114	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69277/4

Matrix: Water

Analysis Batch: 69277

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Chloroethane	50.0	45.71		ug/L		91	72 - 120	2	20	
Chloroform	50.0	50.14		ug/L		100	73 - 129	3	18	
Chloromethane	50.0	35.23		ug/L		70	12 - 150	8	31	
cis-1,2-Dichloroethene	50.0	50.32		ug/L		101	76 - 125	3	17	
cis-1,3-Dichloropropene	50.0	52.29		ug/L		105	74 - 140	1	15	
Dibromomethane	50.0	52.45		ug/L		105	71 - 125	5	16	
Dichlorodifluoromethane	50.0	53.14		ug/L		106	37 - 127	4	18	
Ethylbenzene	50.0	50.30		ug/L		101	80 - 130	3	15	
Hexachlorobutadiene	50.0	51.12		ug/L		102	49 - 146	0	23	
Isopropylbenzene	50.0	51.00		ug/L		102	80 - 141	3	16	
Methyl tert-butyl ether	50.0	57.14		ug/L		114	72 - 133	3	16	
Methylene Chloride	50.0	49.50		ug/L		99	79 - 123	4	17	
Naphthalene	50.0	61.79		ug/L		124	62 - 138	1	26	
n-Butylbenzene	50.0	52.55		ug/L		105	68 - 132	6	18	
N-Propylbenzene	50.0	48.88		ug/L		98	75 - 129	1	17	
p-Isopropyltoluene	50.0	50.16		ug/L		100	75 - 128	3	16	
sec-Butylbenzene	50.0	50.46		ug/L		101	76 - 128	2	16	
Styrene	50.0	52.26		ug/L		105	80 - 127	2	24	
tert-Butylbenzene	50.0	49.87		ug/L		100	76 - 126	2	16	
Tetrachloroethene	50.0	49.58		ug/L		99	80 - 126	2	16	
Toluene	50.0	48.97		ug/L		98	80 - 126	2	15	
trans-1,2-Dichloroethene	50.0	54.54		ug/L		109	79 - 126	4	16	
trans-1,3-Dichloropropene	50.0	53.66		ug/L		107	63 - 134	0	14	
Trichloroethene	50.0	49.95		ug/L		100	80 - 123	2	17	
Trichlorofluoromethane	50.0	48.98		ug/L		98	65 - 124	6	18	
Vinyl chloride	50.0	45.59		ug/L		91	68 - 120	4	17	
Xylenes, Total	150	150.6		ug/L		100	80 - 132	3	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-69278/7

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 06:23	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69278/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 06:23	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 06:23	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 06:23	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 06:23	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:23	1
2-Hexanone	ND		10.0	ug/L			04/02/13 06:23	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 06:23	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 06:23	1
Acetone	ND		50.0	ug/L			04/02/13 06:23	1
Benzene	ND		1.00	ug/L			04/02/13 06:23	1
Bromobenzene	ND		1.00	ug/L			04/02/13 06:23	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 06:23	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 06:23	1
Bromoform	ND		1.00	ug/L			04/02/13 06:23	1
Bromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 06:23	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 06:23	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 06:23	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Chloroethane	ND		1.00	ug/L			04/02/13 06:23	1
Chloroform	ND		1.00	ug/L			04/02/13 06:23	1
Chloromethane	ND		1.00	ug/L			04/02/13 06:23	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
Dibromomethane	ND		1.00	ug/L			04/02/13 06:23	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 06:23	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 06:23	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 06:23	1
Methylene Chloride	ND		5.00	ug/L			04/02/13 06:23	1
Naphthalene	ND		5.00	ug/L			04/02/13 06:23	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 06:23	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1
Styrene	ND		1.00	ug/L			04/02/13 06:23	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 06:23	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69278/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			04/02/13 06:23	1
Toluene	ND		1.00	ug/L			04/02/13 06:23	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 06:23	1
Trichloroethene	ND		1.00	ug/L			04/02/13 06:23	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 06:23	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 06:23	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 06:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/02/13 06:23	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/02/13 06:23	1
Dibromofluoromethane (Surr)	104		70 - 130		04/02/13 06:23	1
Toluene-d8 (Surr)	96		70 - 130		04/02/13 06:23	1

Lab Sample ID: LCS 490-69278/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.98		ug/L		110	74 - 135
1,1,1-Trichloroethane	50.0	61.60		ug/L		123	78 - 135
1,1,1,2,2-Tetrachloroethane	50.0	52.20		ug/L		104	69 - 131
1,1,2-Trichloroethane	50.0	51.23		ug/L		102	80 - 124
1,1-Dichloroethane	50.0	58.63		ug/L		117	78 - 125
Diisopropyl ether	50.0	55.31		ug/L		111	61 - 142
1,1-Dichloroethene	50.0	68.38	*	ug/L		137	79 - 124
1,1-Dichloropropene	50.0	58.94		ug/L		118	80 - 122
1,2,3-Trichlorobenzene	50.0	62.19		ug/L		124	62 - 133
1,2,3-Trichloropropane	50.0	56.55		ug/L		113	70 - 131
1,2,4-Trichlorobenzene	50.0	60.26		ug/L		121	63 - 133
1,2,4-Trimethylbenzene	50.0	53.96		ug/L		108	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	56.84		ug/L		114	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.19		ug/L		112	80 - 129
1,2-Dichlorobenzene	50.0	54.65		ug/L		109	80 - 121
1,2-Dichloroethane	50.0	57.31		ug/L		115	77 - 121
1,2-Dichloropropane	50.0	51.61		ug/L		103	75 - 120
1,3,5-Trimethylbenzene	50.0	55.55		ug/L		111	77 - 127
1,3-Dichlorobenzene	50.0	53.45		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	52.70		ug/L		105	80 - 125
1,4-Dichlorobenzene	50.0	53.67		ug/L		107	80 - 120
2,2-Dichloropropane	50.0	51.92		ug/L		104	43 - 161
2-Butanone (MEK)	250	279.5		ug/L		112	62 - 133
2-Chlorotoluene	50.0	53.36		ug/L		107	75 - 126
2-Hexanone	250	266.1		ug/L		106	60 - 142
4-Chlorotoluene	50.0	54.35		ug/L		109	75 - 130
4-Methyl-2-pentanone (MIBK)	250	267.4		ug/L		107	60 - 137
Acetone	250	280.8		ug/L		112	54 - 145

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69278/3

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	56.36		ug/L		113	80 - 121
Bromobenzene	50.0	54.98		ug/L		110	68 - 130
Bromochloromethane	50.0	56.81		ug/L		114	78 - 129
Bromodichloromethane	50.0	61.51		ug/L		123	75 - 129
Bromoform	50.0	58.66		ug/L		117	46 - 145
Bromomethane	50.0	58.59		ug/L		117	41 - 150
Carbon disulfide	50.0	54.52		ug/L		109	77 - 126
Carbon tetrachloride	50.0	64.12		ug/L		128	64 - 147
Chlorobenzene	50.0	53.98		ug/L		108	80 - 120
Chlorodibromomethane	50.0	58.13		ug/L		116	69 - 133
Chloroethane	50.0	53.67		ug/L		107	72 - 120
Chloroform	50.0	56.33		ug/L		113	73 - 129
Chloromethane	50.0	47.19		ug/L		94	12 - 150
cis-1,2-Dichloroethene	50.0	55.83		ug/L		112	76 - 125
cis-1,3-Dichloropropene	50.0	52.76		ug/L		106	74 - 140
Dibromomethane	50.0	56.59		ug/L		113	71 - 125
Dichlorodifluoromethane	50.0	62.13		ug/L		124	37 - 127
Ethylbenzene	50.0	56.65		ug/L		113	80 - 130
Hexachlorobutadiene	50.0	54.65		ug/L		109	49 - 146
Isopropylbenzene	50.0	57.89		ug/L		116	80 - 141
Methyl tert-butyl ether	50.0	58.33		ug/L		117	72 - 133
Methylene Chloride	50.0	53.93		ug/L		108	79 - 123
Naphthalene	50.0	62.29		ug/L		125	62 - 138
n-Butylbenzene	50.0	59.14		ug/L		118	68 - 132
N-Propylbenzene	50.0	54.13		ug/L		108	75 - 129
p-Isopropyltoluene	50.0	55.78		ug/L		112	75 - 128
sec-Butylbenzene	50.0	56.72		ug/L		113	76 - 128
Styrene	50.0	57.85		ug/L		116	80 - 127
tert-Butylbenzene	50.0	55.87		ug/L		112	76 - 126
Tetrachloroethene	50.0	56.26		ug/L		113	80 - 126
Toluene	50.0	54.60		ug/L		109	80 - 126
trans-1,2-Dichloroethene	50.0	62.31		ug/L		125	79 - 126
trans-1,3-Dichloropropene	50.0	53.16		ug/L		106	63 - 134
Trichloroethene	50.0	57.72		ug/L		115	80 - 123
Trichlorofluoromethane	50.0	58.10		ug/L		116	65 - 124
Vinyl chloride	50.0	54.60		ug/L		109	68 - 120
Xylenes, Total	150	167.6		ug/L		112	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	97		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69278/4

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	50.0	55.28		ug/L		111	74 - 135	1	16
1,1,1-Trichloroethane	50.0	62.33		ug/L		125	78 - 135	1	17
1,1,2,2-Tetrachloroethane	50.0	52.59		ug/L		105	69 - 131	1	20
1,1,2-Trichloroethane	50.0	51.32		ug/L		103	80 - 124	0	15
1,1-Dichloroethane	50.0	59.96		ug/L		120	78 - 125	2	17
Diisopropyl ether	50.0	56.13		ug/L		112	61 - 142	1	50
1,1-Dichloroethene	50.0	69.51	*	ug/L		139	79 - 124	2	17
1,1-Dichloropropene	50.0	59.38		ug/L		119	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	61.30		ug/L		123	62 - 133	1	25
1,2,3-Trichloropropane	50.0	56.85		ug/L		114	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	59.43		ug/L		119	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	53.81		ug/L		108	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	57.18		ug/L		114	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	55.27		ug/L		111	80 - 129	2	15
1,2-Dichlorobenzene	50.0	52.19		ug/L		104	80 - 121	5	15
1,2-Dichloroethane	50.0	58.19		ug/L		116	77 - 121	2	17
1,2-Dichloropropane	50.0	52.92		ug/L		106	75 - 120	3	17
1,3,5-Trimethylbenzene	50.0	55.29		ug/L		111	77 - 127	0	17
1,3-Dichlorobenzene	50.0	52.94		ug/L		106	80 - 122	1	15
1,3-Dichloropropane	50.0	52.47		ug/L		105	80 - 125	0	14
1,4-Dichlorobenzene	50.0	53.19		ug/L		106	80 - 120	1	15
2,2-Dichloropropane	50.0	52.07		ug/L		104	43 - 161	0	18
2-Butanone (MEK)	250	295.1		ug/L		118	62 - 133	5	19
2-Chlorotoluene	50.0	53.20		ug/L		106	75 - 126	0	17
2-Hexanone	250	269.1		ug/L		108	60 - 142	1	15
4-Chlorotoluene	50.0	54.00		ug/L		108	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	271.9		ug/L		109	60 - 137	2	17
Acetone	250	278.2		ug/L		111	54 - 145	1	21
Benzene	50.0	57.91		ug/L		116	80 - 121	3	17
Bromobenzene	50.0	54.88		ug/L		110	68 - 130	0	20
Bromochloromethane	50.0	57.19		ug/L		114	78 - 129	1	17
Bromodichloromethane	50.0	62.22		ug/L		124	75 - 129	1	18
Bromoform	50.0	58.50		ug/L		117	46 - 145	0	16
Bromomethane	50.0	60.28		ug/L		121	41 - 150	3	50
Carbon disulfide	50.0	56.15		ug/L		112	77 - 126	3	21
Carbon tetrachloride	50.0	65.25		ug/L		131	64 - 147	2	19
Chlorobenzene	50.0	53.77		ug/L		108	80 - 120	0	14
Chlorodibromomethane	50.0	58.03		ug/L		116	69 - 133	0	15
Chloroethane	50.0	54.28		ug/L		109	72 - 120	1	20
Chloroform	50.0	57.50		ug/L		115	73 - 129	2	18
Chloromethane	50.0	47.38		ug/L		95	12 - 150	0	31
cis-1,2-Dichloroethene	50.0	56.77		ug/L		114	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	53.06		ug/L		106	74 - 140	1	15
Dibromomethane	50.0	57.49		ug/L		115	71 - 125	2	16
Dichlorodifluoromethane	50.0	62.77		ug/L		126	37 - 127	1	18
Ethylbenzene	50.0	56.50		ug/L		113	80 - 130	0	15
Hexachlorobutadiene	50.0	54.84		ug/L		110	49 - 146	0	23
Isopropylbenzene	50.0	57.11		ug/L		114	80 - 141	1	16

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69278/4

Matrix: Water

Analysis Batch: 69278

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Methyl tert-butyl ether	50.0	59.26		ug/L		119	72 - 133	2	16	
Methylene Chloride	50.0	57.12		ug/L		114	79 - 123	6	17	
Naphthalene	50.0	62.33		ug/L		125	62 - 138	0	26	
n-Butylbenzene	50.0	57.22		ug/L		114	68 - 132	3	18	
N-Propylbenzene	50.0	54.10		ug/L		108	75 - 129	0	17	
p-Isopropyltoluene	50.0	55.55		ug/L		111	75 - 128	0	16	
sec-Butylbenzene	50.0	56.28		ug/L		113	76 - 128	1	16	
Styrene	50.0	57.53		ug/L		115	80 - 127	1	24	
tert-Butylbenzene	50.0	55.88		ug/L		112	76 - 126	0	16	
Tetrachloroethene	50.0	55.77		ug/L		112	80 - 126	1	16	
Toluene	50.0	54.92		ug/L		110	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	63.32	*	ug/L		127	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	53.44		ug/L		107	63 - 134	1	14	
Trichloroethene	50.0	58.51		ug/L		117	80 - 123	1	17	
Trichlorofluoromethane	50.0	57.84		ug/L		116	65 - 124	0	18	
Vinyl chloride	50.0	55.52		ug/L		111	68 - 120	2	17	
Xylenes, Total	150	167.4		ug/L		112	80 - 132	0	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,1-Dichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
Diisopropyl ether	ND		2.00	ug/L			04/02/13 19:48	1
1,1-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
1,1-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/02/13 19:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichloroethane	ND		1.00	ug/L			04/02/13 19:48	1
1,2-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,3-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
2,2-Dichloropropane	ND		1.00	ug/L			04/02/13 19:48	1
2-Butanone (MEK)	ND		50.0	ug/L			04/02/13 19:48	1
2-Chlorotoluene	ND		1.00	ug/L			04/02/13 19:48	1
2-Hexanone	ND		10.0	ug/L			04/02/13 19:48	1
4-Chlorotoluene	ND		1.00	ug/L			04/02/13 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/02/13 19:48	1
Acetone	ND		50.0	ug/L			04/02/13 19:48	1
Benzene	ND		1.00	ug/L			04/02/13 19:48	1
Bromobenzene	ND		1.00	ug/L			04/02/13 19:48	1
Bromochloromethane	ND		1.00	ug/L			04/02/13 19:48	1
Bromodichloromethane	ND		1.00	ug/L			04/02/13 19:48	1
Bromoform	ND		1.00	ug/L			04/02/13 19:48	1
Bromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Carbon disulfide	ND		1.00	ug/L			04/02/13 19:48	1
Carbon tetrachloride	ND		1.00	ug/L			04/02/13 19:48	1
Chlorobenzene	ND		1.00	ug/L			04/02/13 19:48	1
Chlorodibromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Chloroethane	ND		1.00	ug/L			04/02/13 19:48	1
Chloroform	ND		1.00	ug/L			04/02/13 19:48	1
Chloromethane	ND		1.00	ug/L			04/02/13 19:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
Dibromomethane	ND		1.00	ug/L			04/02/13 19:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/02/13 19:48	1
Ethylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Hexachlorobutadiene	ND		2.00	ug/L			04/02/13 19:48	1
Isopropylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/02/13 19:48	1
Methylene Chloride	ND		5.00	ug/L			04/02/13 19:48	1
Naphthalene	ND		5.00	ug/L			04/02/13 19:48	1
n-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
N-Propylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
p-Isopropyltoluene	ND		1.00	ug/L			04/02/13 19:48	1
sec-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Styrene	ND		1.00	ug/L			04/02/13 19:48	1
tert-Butylbenzene	ND		1.00	ug/L			04/02/13 19:48	1
Tetrachloroethene	ND		1.00	ug/L			04/02/13 19:48	1
Toluene	ND		1.00	ug/L			04/02/13 19:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/02/13 19:48	1
Trichloroethene	ND		1.00	ug/L			04/02/13 19:48	1
Trichlorofluoromethane	ND		1.00	ug/L			04/02/13 19:48	1
Vinyl chloride	ND		1.00	ug/L			04/02/13 19:48	1
Xylenes, Total	ND		3.00	ug/L			04/02/13 19:48	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69679/7

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/02/13 19:48	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/02/13 19:48	1
Dibromofluoromethane (Surr)	99		70 - 130		04/02/13 19:48	1
Toluene-d8 (Surr)	96		70 - 130		04/02/13 19:48	1

Lab Sample ID: LCS 490-69679/3

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.90		ug/L		108	74 - 135
1,1,1-Trichloroethane	50.0	60.87		ug/L		122	78 - 135
1,1,2,2-Tetrachloroethane	50.0	49.59		ug/L		99	69 - 131
1,1,2-Trichloroethane	50.0	49.74		ug/L		99	80 - 124
1,1-Dichloroethane	50.0	58.61		ug/L		117	78 - 125
Diisopropyl ether	50.0	55.19		ug/L		110	61 - 142
1,1-Dichloroethene	50.0	67.35	*	ug/L		135	79 - 124
1,1-Dichloropropene	50.0	58.22		ug/L		116	80 - 122
1,2,3-Trichlorobenzene	50.0	59.41		ug/L		119	62 - 133
1,2,3-Trichloropropane	50.0	52.63		ug/L		105	70 - 131
1,2,4-Trichlorobenzene	50.0	58.63		ug/L		117	63 - 133
1,2,4-Trimethylbenzene	50.0	53.06		ug/L		106	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.27		ug/L		107	54 - 125
1,2-Dibromoethane (EDB)	50.0	53.61		ug/L		107	80 - 129
1,2-Dichlorobenzene	50.0	51.82		ug/L		104	80 - 121
1,2-Dichloroethane	50.0	56.46		ug/L		113	77 - 121
1,2-Dichloropropane	50.0	52.16		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	50.0	54.08		ug/L		108	77 - 127
1,3-Dichlorobenzene	50.0	53.55		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	50.67		ug/L		101	80 - 125
1,4-Dichlorobenzene	50.0	52.62		ug/L		105	80 - 120
2,2-Dichloropropane	50.0	61.69		ug/L		123	43 - 161
2-Butanone (MEK)	250	284.9		ug/L		114	62 - 133
2-Chlorotoluene	50.0	53.57		ug/L		107	75 - 126
2-Hexanone	250	248.3		ug/L		99	60 - 142
4-Chlorotoluene	50.0	53.54		ug/L		107	75 - 130
4-Methyl-2-pentanone (MIBK)	250	253.0		ug/L		101	60 - 137
Acetone	250	285.3		ug/L		114	54 - 145
Benzene	50.0	57.05		ug/L		114	80 - 121
Bromobenzene	50.0	52.82		ug/L		106	68 - 130
Bromochloromethane	50.0	55.71		ug/L		111	78 - 129
Bromodichloromethane	50.0	61.81		ug/L		124	75 - 129
Bromoform	50.0	55.26		ug/L		111	46 - 145
Bromomethane	50.0	58.96		ug/L		118	41 - 150
Carbon disulfide	50.0	54.52		ug/L		109	77 - 126
Carbon tetrachloride	50.0	62.15		ug/L		124	64 - 147
Chlorobenzene	50.0	53.09		ug/L		106	80 - 120
Chlorodibromomethane	50.0	55.25		ug/L		111	69 - 133

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69679/3

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	52.71		ug/L		105	72 - 120
Chloroform	50.0	56.93		ug/L		114	73 - 129
Chloromethane	50.0	44.63		ug/L		89	12 - 150
cis-1,2-Dichloroethene	50.0	57.22		ug/L		114	76 - 125
cis-1,3-Dichloropropene	50.0	53.59		ug/L		107	74 - 140
Dibromomethane	50.0	55.46		ug/L		111	71 - 125
Dichlorodifluoromethane	50.0	69.64	*	ug/L		139	37 - 127
Ethylbenzene	50.0	55.44		ug/L		111	80 - 130
Hexachlorobutadiene	50.0	54.42		ug/L		109	49 - 146
Isopropylbenzene	50.0	55.91		ug/L		112	80 - 141
Methyl tert-butyl ether	50.0	57.97		ug/L		116	72 - 133
Methylene Chloride	50.0	54.64		ug/L		109	79 - 123
Naphthalene	50.0	59.04		ug/L		118	62 - 138
n-Butylbenzene	50.0	57.69		ug/L		115	68 - 132
N-Propylbenzene	50.0	54.00		ug/L		108	75 - 129
p-Isopropyltoluene	50.0	55.11		ug/L		110	75 - 128
sec-Butylbenzene	50.0	56.20		ug/L		112	76 - 128
Styrene	50.0	55.72		ug/L		111	80 - 127
tert-Butylbenzene	50.0	55.53		ug/L		111	76 - 126
Tetrachloroethene	50.0	54.44		ug/L		109	80 - 126
Toluene	50.0	53.54		ug/L		107	80 - 126
trans-1,2-Dichloroethene	50.0	61.48		ug/L		123	79 - 126
trans-1,3-Dichloropropene	50.0	53.58		ug/L		107	63 - 134
Trichloroethene	50.0	58.04		ug/L		116	80 - 123
Trichlorofluoromethane	50.0	53.79		ug/L		108	65 - 124
Vinyl chloride	50.0	52.99		ug/L		106	68 - 120
Xylenes, Total	150	163.5		ug/L		109	80 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-69679/4

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	53.56		ug/L		107	74 - 135	1	16
1,1,1,1-Trichloroethane	50.0	61.51		ug/L		123	78 - 135	1	17
1,1,1,2,2-Tetrachloroethane	50.0	53.34		ug/L		107	69 - 131	7	20
1,1,2-Trichloroethane	50.0	49.12		ug/L		98	80 - 124	1	15
1,1-Dichloroethane	50.0	59.65		ug/L		119	78 - 125	2	17
Diisopropyl ether	50.0	57.12		ug/L		114	61 - 142	3	50
1,1-Dichloroethene	50.0	68.13	*	ug/L		136	79 - 124	1	17
1,1-Dichloropropene	50.0	59.00		ug/L		118	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	59.58		ug/L		119	62 - 133	0	25

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69679/4

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
1,2,3-Trichloropropane	50.0	55.79		ug/L		112	70 - 131	6	19	
1,2,4-Trichlorobenzene	50.0	58.21		ug/L		116	63 - 133	1	19	
1,2,4-Trimethylbenzene	50.0	53.71		ug/L		107	77 - 126	1	16	
1,2-Dibromo-3-Chloropropane	50.0	54.57		ug/L		109	54 - 125	2	24	
1,2-Dibromoethane (EDB)	50.0	53.15		ug/L		106	80 - 129	1	15	
1,2-Dichlorobenzene	50.0	52.00		ug/L		104	80 - 121	0	15	
1,2-Dichloroethane	50.0	58.07		ug/L		116	77 - 121	3	17	
1,2-Dichloropropane	50.0	53.09		ug/L		106	75 - 120	2	17	
1,3,5-Trimethylbenzene	50.0	54.60		ug/L		109	77 - 127	1	17	
1,3-Dichlorobenzene	50.0	53.27		ug/L		107	80 - 122	1	15	
1,3-Dichloropropane	50.0	50.27		ug/L		101	80 - 125	1	14	
1,4-Dichlorobenzene	50.0	52.77		ug/L		106	80 - 120	0	15	
2,2-Dichloropropane	50.0	64.19		ug/L		128	43 - 161	4	18	
2-Butanone (MEK)	250	290.8		ug/L		116	62 - 133	2	19	
2-Chlorotoluene	50.0	53.87		ug/L		108	75 - 126	1	17	
2-Hexanone	250	252.2		ug/L		101	60 - 142	2	15	
4-Chlorotoluene	50.0	53.79		ug/L		108	75 - 130	0	18	
4-Methyl-2-pentanone (MIBK)	250	252.3		ug/L		101	60 - 137	0	17	
Acetone	250	299.5		ug/L		120	54 - 145	5	21	
Benzene	50.0	57.66		ug/L		115	80 - 121	1	17	
Bromobenzene	50.0	55.72		ug/L		111	68 - 130	5	20	
Bromochloromethane	50.0	56.58		ug/L		113	78 - 129	2	17	
Bromodichloromethane	50.0	61.86		ug/L		124	75 - 129	0	18	
Bromoform	50.0	57.73		ug/L		115	46 - 145	4	16	
Bromomethane	50.0	61.41		ug/L		123	41 - 150	4	50	
Carbon disulfide	50.0	55.41		ug/L		111	77 - 126	2	21	
Carbon tetrachloride	50.0	63.69		ug/L		127	64 - 147	2	19	
Chlorobenzene	50.0	52.58		ug/L		105	80 - 120	1	14	
Chlorodibromomethane	50.0	55.16		ug/L		110	69 - 133	0	15	
Chloroethane	50.0	53.00		ug/L		106	72 - 120	1	20	
Chloroform	50.0	57.91		ug/L		116	73 - 129	2	18	
Chloromethane	50.0	47.59		ug/L		95	12 - 150	6	31	
cis-1,2-Dichloroethene	50.0	57.71		ug/L		115	76 - 125	1	17	
cis-1,3-Dichloropropene	50.0	52.65		ug/L		105	74 - 140	2	15	
Dibromomethane	50.0	56.33		ug/L		113	71 - 125	2	16	
Dichlorodifluoromethane	50.0	70.48 *		ug/L		141	37 - 127	1	18	
Ethylbenzene	50.0	55.36		ug/L		111	80 - 130	0	15	
Hexachlorobutadiene	50.0	53.43		ug/L		107	49 - 146	2	23	
Isopropylbenzene	50.0	59.24		ug/L		118	80 - 141	6	16	
Methyl tert-butyl ether	50.0	59.36		ug/L		119	72 - 133	2	16	
Methylene Chloride	50.0	57.70		ug/L		115	79 - 123	5	17	
Naphthalene	50.0	59.02		ug/L		118	62 - 138	0	26	
n-Butylbenzene	50.0	57.34		ug/L		115	68 - 132	1	18	
N-Propylbenzene	50.0	55.01		ug/L		110	75 - 129	2	17	
p-Isopropyltoluene	50.0	55.41		ug/L		111	75 - 128	1	16	
sec-Butylbenzene	50.0	56.30		ug/L		113	76 - 128	0	16	
Styrene	50.0	56.13		ug/L		112	80 - 127	1	24	
tert-Butylbenzene	50.0	56.06		ug/L		112	76 - 126	1	16	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69679/4

Matrix: Water

Analysis Batch: 69679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	50.0	54.45		ug/L		109	80 - 126	0	16
Toluene	50.0	53.34		ug/L		107	80 - 126	0	15
trans-1,2-Dichloroethene	50.0	63.02		ug/L		126	79 - 126	2	16
trans-1,3-Dichloropropene	50.0	53.50		ug/L		107	63 - 134	0	14
Trichloroethene	50.0	59.37		ug/L		119	80 - 123	2	17
Trichlorofluoromethane	50.0	56.64		ug/L		113	65 - 124	5	18
Vinyl chloride	50.0	55.13		ug/L		110	68 - 120	4	17
Xylenes, Total	150	164.5		ug/L		110	80 - 132	1	15

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: MB 490-69767/7

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,1-Dichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
Diisopropyl ether	ND		2.00	ug/L			04/03/13 14:20	1
1,1-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
1,1-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/03/13 14:20	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichloroethane	ND		1.00	ug/L			04/03/13 14:20	1
1,2-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
1,3-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
2,2-Dichloropropane	ND		1.00	ug/L			04/03/13 14:20	1
2-Butanone (MEK)	ND		50.0	ug/L			04/03/13 14:20	1
2-Chlorotoluene	ND		1.00	ug/L			04/03/13 14:20	1
2-Hexanone	ND		10.0	ug/L			04/03/13 14:20	1
4-Chlorotoluene	ND		1.00	ug/L			04/03/13 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/03/13 14:20	1
Acetone	ND		50.0	ug/L			04/03/13 14:20	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-69767/7

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		1.00	ug/L			04/03/13 14:20	1
Bromobenzene	ND		1.00	ug/L			04/03/13 14:20	1
Bromochloromethane	ND		1.00	ug/L			04/03/13 14:20	1
Bromodichloromethane	ND		1.00	ug/L			04/03/13 14:20	1
Bromoform	ND		1.00	ug/L			04/03/13 14:20	1
Bromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Carbon disulfide	ND		1.00	ug/L			04/03/13 14:20	1
Carbon tetrachloride	ND		1.00	ug/L			04/03/13 14:20	1
Chlorobenzene	ND		1.00	ug/L			04/03/13 14:20	1
Chlorodibromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Chloroethane	ND		1.00	ug/L			04/03/13 14:20	1
Chloroform	ND		1.00	ug/L			04/03/13 14:20	1
Chloromethane	ND		1.00	ug/L			04/03/13 14:20	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
Dibromomethane	ND		1.00	ug/L			04/03/13 14:20	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/03/13 14:20	1
Ethylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Hexachlorobutadiene	ND		2.00	ug/L			04/03/13 14:20	1
Isopropylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/03/13 14:20	1
Methylene Chloride	ND		5.00	ug/L			04/03/13 14:20	1
Naphthalene	ND		5.00	ug/L			04/03/13 14:20	1
n-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
N-Propylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
p-Isopropyltoluene	ND		1.00	ug/L			04/03/13 14:20	1
sec-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Styrene	ND		1.00	ug/L			04/03/13 14:20	1
tert-Butylbenzene	ND		1.00	ug/L			04/03/13 14:20	1
Tetrachloroethene	ND		1.00	ug/L			04/03/13 14:20	1
Toluene	ND		1.00	ug/L			04/03/13 14:20	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/03/13 14:20	1
Trichloroethene	ND		1.00	ug/L			04/03/13 14:20	1
Trichlorofluoromethane	ND		1.00	ug/L			04/03/13 14:20	1
Vinyl chloride	ND		1.00	ug/L			04/03/13 14:20	1
Xylenes, Total	ND		3.00	ug/L			04/03/13 14:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		04/03/13 14:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/03/13 14:20	1
Dibromofluoromethane (Surr)	100		70 - 130		04/03/13 14:20	1
Toluene-d8 (Surr)	106		70 - 130		04/03/13 14:20	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69767/3

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	58.20		ug/L		116	74 - 135
1,1,1-Trichloroethane	50.0	48.29		ug/L		97	78 - 135
1,1,2,2-Tetrachloroethane	50.0	49.72		ug/L		99	69 - 131
1,1,2-Trichloroethane	50.0	50.28		ug/L		101	80 - 124
1,1-Dichloroethane	50.0	47.43		ug/L		95	78 - 125
Diisopropyl ether	50.0	40.32		ug/L		81	61 - 142
1,1-Dichloroethene	50.0	61.95		ug/L		124	79 - 124
1,1-Dichloropropene	50.0	49.95		ug/L		100	80 - 122
1,2,3-Trichlorobenzene	50.0	57.89		ug/L		116	62 - 133
1,2,3-Trichloropropane	50.0	49.18		ug/L		98	70 - 131
1,2,4-Trichlorobenzene	50.0	57.11		ug/L		114	63 - 133
1,2,4-Trimethylbenzene	50.0	55.18		ug/L		110	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	61.34		ug/L		123	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.00		ug/L		108	80 - 129
1,2-Dichlorobenzene	50.0	53.44		ug/L		107	80 - 121
1,2-Dichloroethane	50.0	43.32		ug/L		87	77 - 121
1,2-Dichloropropane	50.0	43.08		ug/L		86	75 - 120
1,3,5-Trimethylbenzene	50.0	55.93		ug/L		112	77 - 127
1,3-Dichlorobenzene	50.0	53.31		ug/L		107	80 - 122
1,3-Dichloropropane	50.0	50.38		ug/L		101	80 - 125
1,4-Dichlorobenzene	50.0	52.87		ug/L		106	80 - 120
2,2-Dichloropropane	50.0	52.58		ug/L		105	43 - 161
2-Butanone (MEK)	250	230.9		ug/L		92	62 - 133
2-Chlorotoluene	50.0	51.12		ug/L		102	75 - 126
2-Hexanone	250	239.0		ug/L		96	60 - 142
4-Chlorotoluene	50.0	51.19		ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	250	228.3		ug/L		91	60 - 137
Acetone	250	206.1		ug/L		82	54 - 145
Benzene	50.0	46.40		ug/L		93	80 - 121
Bromobenzene	50.0	46.67		ug/L		93	68 - 130
Bromochloromethane	50.0	50.70		ug/L		101	78 - 129
Bromodichloromethane	50.0	56.59		ug/L		113	75 - 129
Bromoform	50.0	62.79		ug/L		126	46 - 145
Bromomethane	50.0	67.47		ug/L		135	41 - 150
Carbon disulfide	50.0	51.52		ug/L		103	77 - 126
Carbon tetrachloride	50.0	54.89		ug/L		110	64 - 147
Chlorobenzene	50.0	54.78		ug/L		110	80 - 120
Chlorodibromomethane	50.0	62.99		ug/L		126	69 - 133
Chloroethane	50.0	52.45		ug/L		105	72 - 120
Chloroform	50.0	46.45		ug/L		93	73 - 129
Chloromethane	50.0	31.56		ug/L		63	12 - 150
cis-1,2-Dichloroethene	50.0	46.53		ug/L		93	76 - 125
cis-1,3-Dichloropropene	50.0	57.16		ug/L		114	74 - 140
Dibromomethane	50.0	49.21		ug/L		98	71 - 125
Dichlorodifluoromethane	50.0	51.81		ug/L		104	37 - 127
Ethylbenzene	50.0	52.76		ug/L		106	80 - 130
Hexachlorobutadiene	50.0	44.44		ug/L		89	49 - 146
Isopropylbenzene	50.0	57.75		ug/L		116	80 - 141

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69767/3

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Methyl tert-butyl ether	50.0	51.42		ug/L		103	72 - 133	
Methylene Chloride	50.0	53.10		ug/L		106	79 - 123	
Naphthalene	50.0	54.86		ug/L		110	62 - 138	
n-Butylbenzene	50.0	54.20		ug/L		108	68 - 132	
N-Propylbenzene	50.0	52.05		ug/L		104	75 - 129	
p-Isopropyltoluene	50.0	57.48		ug/L		115	75 - 128	
sec-Butylbenzene	50.0	56.62		ug/L		113	76 - 128	
Styrene	50.0	57.87		ug/L		116	80 - 127	
tert-Butylbenzene	50.0	57.57		ug/L		115	76 - 126	
Tetrachloroethene	50.0	54.03		ug/L		108	80 - 126	
Toluene	50.0	51.93		ug/L		104	80 - 126	
trans-1,2-Dichloroethene	50.0	48.94		ug/L		98	79 - 126	
trans-1,3-Dichloropropene	50.0	56.76		ug/L		114	63 - 134	
Trichloroethene	50.0	55.19		ug/L		110	80 - 123	
Trichlorofluoromethane	50.0	48.67		ug/L		97	65 - 124	
Vinyl chloride	50.0	47.42		ug/L		95	68 - 120	
Xylenes, Total	150	158.9		ug/L		106	80 - 132	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 490-69767/4

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	60.06		ug/L		120	74 - 135	3	16	
1,1,1-Trichloroethane	50.0	50.56		ug/L		101	78 - 135	5	17	
1,1,2,2-Tetrachloroethane	50.0	51.68		ug/L		103	69 - 131	4	20	
1,1,2-Trichloroethane	50.0	51.92		ug/L		104	80 - 124	3	15	
1,1-Dichloroethane	50.0	49.21		ug/L		98	78 - 125	4	17	
Diisopropyl ether	50.0	41.18		ug/L		82	61 - 142	2	50	
1,1-Dichloroethene	50.0	64.35	*	ug/L		129	79 - 124	4	17	
1,1-Dichloropropene	50.0	51.34		ug/L		103	80 - 122	3	17	
1,2,3-Trichlorobenzene	50.0	58.42		ug/L		117	62 - 133	1	25	
1,2,3-Trichloropropane	50.0	48.41		ug/L		97	70 - 131	2	19	
1,2,4-Trichlorobenzene	50.0	59.15		ug/L		118	63 - 133	3	19	
1,2,4-Trimethylbenzene	50.0	56.84		ug/L		114	77 - 126	3	16	
1,2-Dibromo-3-Chloropropane	50.0	62.74		ug/L		125	54 - 125	2	24	
1,2-Dibromoethane (EDB)	50.0	55.94		ug/L		112	80 - 129	4	15	
1,2-Dichlorobenzene	50.0	54.16		ug/L		108	80 - 121	1	15	
1,2-Dichloroethane	50.0	43.88		ug/L		88	77 - 121	1	17	
1,2-Dichloropropane	50.0	45.12		ug/L		90	75 - 120	5	17	
1,3,5-Trimethylbenzene	50.0	57.85		ug/L		116	77 - 127	3	17	
1,3-Dichlorobenzene	50.0	54.77		ug/L		110	80 - 122	3	15	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69767/4

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 69767

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	50.0	51.40		ug/L		103	80 - 125	2	14
1,4-Dichlorobenzene	50.0	53.52		ug/L		107	80 - 120	1	15
2,2-Dichloropropane	50.0	53.44		ug/L		107	43 - 161	2	18
2-Butanone (MEK)	250	226.7		ug/L		91	62 - 133	2	19
2-Chlorotoluene	50.0	52.52		ug/L		105	75 - 126	3	17
2-Hexanone	250	246.4		ug/L		99	60 - 142	3	15
4-Chlorotoluene	50.0	51.93		ug/L		104	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	240.2		ug/L		96	60 - 137	5	17
Acetone	250	212.3		ug/L		85	54 - 145	3	21
Benzene	50.0	47.93		ug/L		96	80 - 121	3	17
Bromobenzene	50.0	48.31		ug/L		97	68 - 130	3	20
Bromochloromethane	50.0	50.95		ug/L		102	78 - 129	0	17
Bromodichloromethane	50.0	57.46		ug/L		115	75 - 129	2	18
Bromoform	50.0	64.94		ug/L		130	46 - 145	3	16
Bromomethane	50.0	68.37		ug/L		137	41 - 150	1	50
Carbon disulfide	50.0	52.53		ug/L		105	77 - 126	2	21
Carbon tetrachloride	50.0	58.58		ug/L		117	64 - 147	7	19
Chlorobenzene	50.0	56.79		ug/L		114	80 - 120	4	14
Chlorodibromomethane	50.0	65.36		ug/L		131	69 - 133	4	15
Chloroethane	50.0	54.84		ug/L		110	72 - 120	4	20
Chloroform	50.0	48.07		ug/L		96	73 - 129	3	18
Chloromethane	50.0	31.72		ug/L		63	12 - 150	0	31
cis-1,2-Dichloroethene	50.0	47.99		ug/L		96	76 - 125	3	17
cis-1,3-Dichloropropene	50.0	58.44		ug/L		117	74 - 140	2	15
Dibromomethane	50.0	50.29		ug/L		101	71 - 125	2	16
Dichlorodifluoromethane	50.0	53.46		ug/L		107	37 - 127	3	18
Ethylbenzene	50.0	55.40		ug/L		111	80 - 130	5	15
Hexachlorobutadiene	50.0	46.88		ug/L		94	49 - 146	5	23
Isopropylbenzene	50.0	59.82		ug/L		120	80 - 141	4	16
Methyl tert-butyl ether	50.0	52.84		ug/L		106	72 - 133	3	16
Methylene Chloride	50.0	54.24		ug/L		108	79 - 123	2	17
Naphthalene	50.0	56.00		ug/L		112	62 - 138	2	26
n-Butylbenzene	50.0	55.26		ug/L		111	68 - 132	2	18
N-Propylbenzene	50.0	53.57		ug/L		107	75 - 129	3	17
p-Isopropyltoluene	50.0	59.30		ug/L		119	75 - 128	3	16
sec-Butylbenzene	50.0	58.38		ug/L		117	76 - 128	3	16
Styrene	50.0	59.63		ug/L		119	80 - 127	3	24
tert-Butylbenzene	50.0	59.26		ug/L		119	76 - 126	3	16
Tetrachloroethene	50.0	56.79		ug/L		114	80 - 126	5	16
Toluene	50.0	54.05		ug/L		108	80 - 126	4	15
trans-1,2-Dichloroethene	50.0	50.91		ug/L		102	79 - 126	4	16
trans-1,3-Dichloropropene	50.0	58.93		ug/L		118	63 - 134	4	14
Trichloroethene	50.0	54.90		ug/L		110	80 - 123	1	17
Trichlorofluoromethane	50.0	49.70		ug/L		99	65 - 124	2	18
Vinyl chloride	50.0	49.28		ug/L		99	68 - 120	4	17
Xylenes, Total	150	166.3		ug/L		111	80 - 132	5	15

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-69767/4

Matrix: Water

Analysis Batch: 69767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 490-70865/7

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,1-Trichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1,2-Trichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,1-Dichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
Diisopropyl ether	ND		2.00	ug/L			04/08/13 19:17	1
1,1-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
1,1-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,3-Trichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			04/08/13 19:17	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichloroethane	ND		1.00	ug/L			04/08/13 19:17	1
1,2-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,3-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
1,3-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
1,4-Dichlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
2,2-Dichloropropane	ND		1.00	ug/L			04/08/13 19:17	1
2-Butanone (MEK)	ND		50.0	ug/L			04/08/13 19:17	1
2-Chlorotoluene	ND		1.00	ug/L			04/08/13 19:17	1
2-Hexanone	ND		10.0	ug/L			04/08/13 19:17	1
4-Chlorotoluene	ND		1.00	ug/L			04/08/13 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	ug/L			04/08/13 19:17	1
Acetone	ND		50.0	ug/L			04/08/13 19:17	1
Benzene	ND		1.00	ug/L			04/08/13 19:17	1
Bromobenzene	ND		1.00	ug/L			04/08/13 19:17	1
Bromochloromethane	ND		1.00	ug/L			04/08/13 19:17	1
Bromodichloromethane	ND		1.00	ug/L			04/08/13 19:17	1
Bromoform	ND		1.00	ug/L			04/08/13 19:17	1
Bromomethane	ND		1.00	ug/L			04/08/13 19:17	1
Carbon disulfide	ND		1.00	ug/L			04/08/13 19:17	1
Carbon tetrachloride	ND		1.00	ug/L			04/08/13 19:17	1
Chlorobenzene	ND		1.00	ug/L			04/08/13 19:17	1
Chlorodibromomethane	ND		1.00	ug/L			04/08/13 19:17	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-70865/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70865

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloroethane	ND		1.00	ug/L			04/08/13 19:17	1
Chloroform	ND		1.00	ug/L			04/08/13 19:17	1
Chloromethane	ND		1.00	ug/L			04/08/13 19:17	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
Dibromomethane	ND		1.00	ug/L			04/08/13 19:17	1
Dichlorodifluoromethane	ND		1.00	ug/L			04/08/13 19:17	1
Ethylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Hexachlorobutadiene	ND		2.00	ug/L			04/08/13 19:17	1
Isopropylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Methyl tert-butyl ether	ND		1.00	ug/L			04/08/13 19:17	1
Methylene Chloride	ND		5.00	ug/L			04/08/13 19:17	1
Naphthalene	ND		5.00	ug/L			04/08/13 19:17	1
n-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
N-Propylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
p-Isopropyltoluene	ND		1.00	ug/L			04/08/13 19:17	1
sec-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Styrene	ND		1.00	ug/L			04/08/13 19:17	1
tert-Butylbenzene	ND		1.00	ug/L			04/08/13 19:17	1
Tetrachloroethene	ND		1.00	ug/L			04/08/13 19:17	1
Toluene	ND		1.00	ug/L			04/08/13 19:17	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			04/08/13 19:17	1
Trichloroethene	ND		1.00	ug/L			04/08/13 19:17	1
Trichlorofluoromethane	ND		1.00	ug/L			04/08/13 19:17	1
Vinyl chloride	ND		1.00	ug/L			04/08/13 19:17	1
Xylenes, Total	ND		3.00	ug/L			04/08/13 19:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/08/13 19:17	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/08/13 19:17	1
Dibromofluoromethane (Surr)	106		70 - 130		04/08/13 19:17	1
Toluene-d8 (Surr)	93		70 - 130		04/08/13 19:17	1

Lab Sample ID: LCS 490-70865/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 70865

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	51.42		ug/L		103	74 - 135
1,1,1,1-Trichloroethane	50.0	57.31		ug/L		115	78 - 135
1,1,2,2-Tetrachloroethane	50.0	57.66		ug/L		115	69 - 131
1,1,2-Trichloroethane	50.0	51.76		ug/L		104	80 - 124
1,1-Dichloroethane	50.0	56.08		ug/L		112	78 - 125
Diisopropyl ether	50.0	57.27		ug/L		115	61 - 142
1,1-Dichloroethene	50.0	61.76		ug/L		124	79 - 124
1,1-Dichloropropene	50.0	54.91		ug/L		110	80 - 122
1,2,3-Trichlorobenzene	50.0	60.77		ug/L		122	62 - 133

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-70865/3

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	59.64		ug/L		119	70 - 131
1,2,4-Trichlorobenzene	50.0	58.04		ug/L		116	63 - 133
1,2,4-Trimethylbenzene	50.0	51.23		ug/L		102	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	57.78		ug/L		116	54 - 125
1,2-Dibromoethane (EDB)	50.0	56.25		ug/L		112	80 - 129
1,2-Dichlorobenzene	50.0	51.00		ug/L		102	80 - 121
1,2-Dichloroethane	50.0	59.20		ug/L		118	77 - 121
1,2-Dichloropropane	50.0	52.39		ug/L		105	75 - 120
1,3,5-Trimethylbenzene	50.0	52.03		ug/L		104	77 - 127
1,3-Dichlorobenzene	50.0	50.33		ug/L		101	80 - 122
1,3-Dichloropropane	50.0	52.02		ug/L		104	80 - 125
1,4-Dichlorobenzene	50.0	50.48		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	59.93		ug/L		120	43 - 161
2-Butanone (MEK)	250	322.0		ug/L		129	62 - 133
2-Chlorotoluene	50.0	50.71		ug/L		101	75 - 126
2-Hexanone	250	276.6		ug/L		111	60 - 142
4-Chlorotoluene	50.0	51.35		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	280.6		ug/L		112	60 - 137
Acetone	250	297.6		ug/L		119	54 - 145
Benzene	50.0	54.86		ug/L		110	80 - 121
Bromobenzene	50.0	55.60		ug/L		111	68 - 130
Bromochloromethane	50.0	56.98		ug/L		114	78 - 129
Bromodichloromethane	50.0	63.08		ug/L		126	75 - 129
Bromoform	50.0	59.41		ug/L		119	46 - 145
Bromomethane	50.0	50.69		ug/L		101	41 - 150
Carbon disulfide	50.0	49.95		ug/L		100	77 - 126
Carbon tetrachloride	50.0	57.71		ug/L		115	64 - 147
Chlorobenzene	50.0	48.88		ug/L		98	80 - 120
Chlorodibromomethane	50.0	57.76		ug/L		116	69 - 133
Chloroethane	50.0	45.50		ug/L		91	72 - 120
Chloroform	50.0	55.10		ug/L		110	73 - 129
Chloromethane	50.0	38.78		ug/L		78	12 - 150
cis-1,2-Dichloroethene	50.0	55.44		ug/L		111	76 - 125
cis-1,3-Dichloropropene	50.0	53.57		ug/L		107	74 - 140
Dibromomethane	50.0	59.55		ug/L		119	71 - 125
Dichlorodifluoromethane	50.0	54.94		ug/L		110	37 - 127
Ethylbenzene	50.0	50.80		ug/L		102	80 - 130
Hexachlorobutadiene	50.0	51.03		ug/L		102	49 - 146
Isopropylbenzene	50.0	51.02		ug/L		102	80 - 141
Methyl tert-butyl ether	50.0	63.09		ug/L		126	72 - 133
Methylene Chloride	50.0	53.74		ug/L		107	79 - 123
Naphthalene	50.0	65.37		ug/L		131	62 - 138
n-Butylbenzene	50.0	53.63		ug/L		107	68 - 132
N-Propylbenzene	50.0	50.75		ug/L		101	75 - 129
p-Isopropyltoluene	50.0	51.23		ug/L		102	75 - 128
sec-Butylbenzene	50.0	51.71		ug/L		103	76 - 128
Styrene	50.0	52.97		ug/L		106	80 - 127
tert-Butylbenzene	50.0	50.84		ug/L		102	76 - 126

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-70865/3

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	50.0	48.77		ug/L		98	80 - 126
Toluene	50.0	49.65		ug/L		99	80 - 126
trans-1,2-Dichloroethene	50.0	57.61		ug/L		115	79 - 126
trans-1,3-Dichloropropene	50.0	54.94		ug/L		110	63 - 134
Trichloroethene	50.0	53.75		ug/L		107	80 - 123
Trichlorofluoromethane	50.0	49.48		ug/L		99	65 - 124
Vinyl chloride	50.0	45.95		ug/L		92	68 - 120
Xylenes, Total	150	152.0		ug/L		101	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-70865/4

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.79		ug/L		104	74 - 135	1	16
1,1,1-Trichloroethane	50.0	58.16		ug/L		116	78 - 135	1	17
1,1,1,2,2-Tetrachloroethane	50.0	56.51		ug/L		113	69 - 131	2	20
1,1,2-Trichloroethane	50.0	52.05		ug/L		104	80 - 124	1	15
1,1-Dichloroethane	50.0	57.08		ug/L		114	78 - 125	2	17
Diisopropyl ether	50.0	57.02		ug/L		114	61 - 142	0	50
1,1-Dichloroethene	50.0	63.20	*	ug/L		126	79 - 124	2	17
1,1-Dichloropropene	50.0	54.69		ug/L		109	80 - 122	0	17
1,2,3-Trichlorobenzene	50.0	61.45		ug/L		123	62 - 133	1	25
1,2,3-Trichloropropane	50.0	58.68		ug/L		117	70 - 131	2	19
1,2,4-Trichlorobenzene	50.0	58.52		ug/L		117	63 - 133	1	19
1,2,4-Trimethylbenzene	50.0	50.75		ug/L		101	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	61.77		ug/L		124	54 - 125	7	24
1,2-Dibromoethane (EDB)	50.0	56.03		ug/L		112	80 - 129	0	15
1,2-Dichlorobenzene	50.0	51.17		ug/L		102	80 - 121	0	15
1,2-Dichloroethane	50.0	60.09		ug/L		120	77 - 121	1	17
1,2-Dichloropropane	50.0	52.76		ug/L		106	75 - 120	1	17
1,3,5-Trimethylbenzene	50.0	51.37		ug/L		103	77 - 127	1	17
1,3-Dichlorobenzene	50.0	50.26		ug/L		101	80 - 122	0	15
1,3-Dichloropropane	50.0	52.70		ug/L		105	80 - 125	1	14
1,4-Dichlorobenzene	50.0	50.80		ug/L		102	80 - 120	1	15
2,2-Dichloropropane	50.0	58.38		ug/L		117	43 - 161	3	18
2-Butanone (MEK)	250	326.9		ug/L		131	62 - 133	1	19
2-Chlorotoluene	50.0	50.28		ug/L		101	75 - 126	1	17
2-Hexanone	250	285.1		ug/L		114	60 - 142	3	15
4-Chlorotoluene	50.0	51.06		ug/L		102	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	284.1		ug/L		114	60 - 137	1	17
Acetone	250	314.8		ug/L		126	54 - 145	6	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-70865/4

Matrix: Water

Analysis Batch: 70865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Benzene	50.0	55.08		ug/L		110	80 - 121	0	17	
Bromobenzene	50.0	54.64		ug/L		109	68 - 130	2	20	
Bromochloromethane	50.0	58.29		ug/L		117	78 - 129	2	17	
Bromodichloromethane	50.0	64.13		ug/L		128	75 - 129	2	18	
Bromoform	50.0	60.34		ug/L		121	46 - 145	2	16	
Bromomethane	50.0	51.15		ug/L		102	41 - 150	1	50	
Carbon disulfide	50.0	50.39		ug/L		101	77 - 126	1	21	
Carbon tetrachloride	50.0	58.00		ug/L		116	64 - 147	1	19	
Chlorobenzene	50.0	49.94		ug/L		100	80 - 120	2	14	
Chlorodibromomethane	50.0	58.67		ug/L		117	69 - 133	2	15	
Chloroethane	50.0	46.85		ug/L		94	72 - 120	3	20	
Chloroform	50.0	56.14		ug/L		112	73 - 129	2	18	
Chloromethane	50.0	38.21		ug/L		76	12 - 150	1	31	
cis-1,2-Dichloroethene	50.0	56.29		ug/L		113	76 - 125	2	17	
cis-1,3-Dichloropropene	50.0	53.59		ug/L		107	74 - 140	0	15	
Dibromomethane	50.0	60.17		ug/L		120	71 - 125	1	16	
Dichlorodifluoromethane	50.0	55.52		ug/L		111	37 - 127	1	18	
Ethylbenzene	50.0	51.91		ug/L		104	80 - 130	2	15	
Hexachlorobutadiene	50.0	49.81		ug/L		100	49 - 146	2	23	
Isopropylbenzene	50.0	51.62		ug/L		103	80 - 141	1	16	
Methyl tert-butyl ether	50.0	63.84		ug/L		128	72 - 133	1	16	
Methylene Chloride	50.0	56.05		ug/L		112	79 - 123	4	17	
Naphthalene	50.0	65.40		ug/L		131	62 - 138	0	26	
n-Butylbenzene	50.0	52.95		ug/L		106	68 - 132	1	18	
N-Propylbenzene	50.0	50.02		ug/L		100	75 - 129	1	17	
p-Isopropyltoluene	50.0	50.55		ug/L		101	75 - 128	1	16	
sec-Butylbenzene	50.0	51.22		ug/L		102	76 - 128	1	16	
Styrene	50.0	53.97		ug/L		108	80 - 127	2	24	
tert-Butylbenzene	50.0	50.71		ug/L		101	76 - 126	0	16	
Tetrachloroethene	50.0	49.15		ug/L		98	80 - 126	1	16	
Toluene	50.0	50.07		ug/L		100	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	58.07		ug/L		116	79 - 126	1	16	
trans-1,3-Dichloropropene	50.0	55.11		ug/L		110	63 - 134	0	14	
Trichloroethene	50.0	54.08		ug/L		108	80 - 123	1	17	
Trichlorofluoromethane	50.0	48.28		ug/L		97	65 - 124	2	18	
Vinyl chloride	50.0	46.54		ug/L		93	68 - 120	1	17	
Xylenes, Total	150	153.8		ug/L		103	80 - 132	1	15	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	94		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-69074/1-A

Matrix: Water

Analysis Batch: 69522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69074

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Acenaphthylene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[a]anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[a]pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[b]fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Benzo[k]fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Phenanthrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Chrysene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Fluoranthene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Fluorene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1
Naphthalene	ND		2.00	ug/L		03/30/13 14:44	04/02/13 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		29 - 120	03/30/13 14:44	04/02/13 23:25	1
Terphenyl-d14 (Surr)	84		13 - 120	03/30/13 14:44	04/02/13 23:25	1
Nitrobenzene-d5 (Surr)	70		27 - 120	03/30/13 14:44	04/02/13 23:25	1

Lab Sample ID: LCS 490-69074/2-A

Matrix: Water

Analysis Batch: 69851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	43.05		ug/L		86	46 - 120
Acenaphthylene	50.0	45.10		ug/L		90	48 - 120
Anthracene	50.0	43.61		ug/L		87	58 - 130
Benzo[a]anthracene	50.0	37.56		ug/L		75	57 - 120
Benzo[a]pyrene	50.0	32.00		ug/L		64	57 - 124
Benzo[b]fluoranthene	50.0	32.33		ug/L		65	51 - 125
Benzo[g,h,i]perylene	50.0	33.42		ug/L		67	51 - 123
Benzo[k]fluoranthene	50.0	32.69		ug/L		65	51 - 120
Pyrene	50.0	39.90		ug/L		80	53 - 129
Phenanthrene	50.0	47.20		ug/L		94	56 - 120
Chrysene	50.0	37.61		ug/L		75	55 - 120
Dibenz(a,h)anthracene	50.0	32.26		ug/L		65	50 - 125
Fluoranthene	50.0	43.95		ug/L		88	56 - 120
Fluorene	50.0	45.18		ug/L		90	52 - 120
Indeno[1,2,3-cd]pyrene	50.0	32.72		ug/L		65	54 - 125
Naphthalene	50.0	40.85		ug/L		82	37 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
Terphenyl-d14 (Surr)	70		13 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-69074/2-A
Matrix: Water
Analysis Batch: 69851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69074

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	66		27 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-69126/24
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/01/13 17:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150		04/01/13 17:58	1

Lab Sample ID: LCS 490-69126/9
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1160		ug/L		116	66 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	115		50 - 150

Lab Sample ID: LCSD 490-69126/47
Matrix: Water
Analysis Batch: 69126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1058		ug/L		106	66 - 140	9	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	118		50 - 150

Lab Sample ID: MB 490-69398/15
Matrix: Water
Analysis Batch: 69398

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		04/02/13 14:36	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-69398/8
Matrix: Water
Analysis Batch: 69398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1085		ug/L		108	66 - 140
Surrogate		LCS %Recovery	LCS Qualifier				Limits
a,a,a-Trifluorotoluene		110					50 - 150

Lab Sample ID: LCSD 490-69398/46
Matrix: Water
Analysis Batch: 69398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	997.8		ug/L		100	66 - 140	8	42
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
a,a,a-Trifluorotoluene		109					50 - 150		

Lab Sample ID: MB 490-69585/27
Matrix: Water
Analysis Batch: 69585

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			04/02/13 22:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150				04/02/13 22:36	1

Lab Sample ID: LCS 490-69585/25
Matrix: Water
Analysis Batch: 69585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1024		ug/L		102	66 - 140
Surrogate		LCS %Recovery	LCS Qualifier				Limits
a,a,a-Trifluorotoluene		81					50 - 150

Lab Sample ID: LCSD 490-69585/26
Matrix: Water
Analysis Batch: 69585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	997.0		ug/L		100	66 - 140	3	42
Surrogate		LCSD %Recovery	LCSD Qualifier				Limits		
a,a,a-Trifluorotoluene		80					50 - 150		



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-69051/1-A
Matrix: Water
Analysis Batch: 69244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69051

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		03/30/13 13:37	04/01/13 14:23	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	57		50 - 150			03/30/13 13:37	04/01/13 14:23	1

Lab Sample ID: LCS 490-69051/2-A
Matrix: Water
Analysis Batch: 69244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	769.1		ug/L		77	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl (Surr)	80		50 - 150				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-70515/3
Matrix: Water
Analysis Batch: 70515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/06/13 00:14	1

Lab Sample ID: LCS 490-70515/4
Matrix: Water
Analysis Batch: 70515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.16		mg/L		104	90 - 110

Lab Sample ID: 490-23087-19 MS
Matrix: Water
Analysis Batch: 70515

Client Sample ID: OS-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	259		50.0	302.2	E 4	mg/L		86	80 - 120

Lab Sample ID: 490-23087-19 DU
Matrix: Water
Analysis Batch: 70515

Client Sample ID: OS-5E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	259		268.1	E	mg/L		3	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 490-70582/3
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/06/13 18:23	1

Lab Sample ID: LCS 490-70582/4
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	54.51		mg/L		109	90 - 110

Lab Sample ID: LCSD 490-70582/5
Matrix: Water
Analysis Batch: 70582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	54.22		mg/L		108	90 - 110	1	20

Lab Sample ID: MB 490-71145/3
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			04/09/13 20:33	1

Lab Sample ID: LCS 490-71145/4
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	52.48		mg/L		105	90 - 110

Lab Sample ID: LCSD 490-71145/5
Matrix: Water
Analysis Batch: 71145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	52.48		mg/L		105	90 - 110	0	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-69578/1-A
Matrix: Water
Analysis Batch: 69974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69578

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Arsenic	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Chromium	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 16:47	1
Copper	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1
Iron	ND		0.100	mg/L		04/02/13 12:54	04/03/13 16:47	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-69578/1-A

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69578

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00500	mg/L		04/02/13 12:54	04/03/13 16:47	1
Manganese	ND		0.0150	mg/L		04/02/13 12:54	04/03/13 16:47	1
Selenium	ND		0.0100	mg/L		04/02/13 12:54	04/03/13 16:47	1

Lab Sample ID: LCS 490-69578/2-A

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.143		mg/L		107	80 - 120
Arsenic	0.0500	0.04640		mg/L		93	80 - 120
Chromium	0.200	0.2046		mg/L		102	80 - 120
Copper	0.250	0.2495		mg/L		100	80 - 120
Iron	1.00	1.016		mg/L		102	80 - 120
Lead	0.0500	0.05230		mg/L		105	80 - 120
Manganese	0.500	0.5067		mg/L		101	80 - 120
Selenium	0.0500	0.05300		mg/L		106	80 - 120

Lab Sample ID: 490-23123-A-12-D MS

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		2.00	2.002		mg/L		100	75 - 125
Arsenic	0.150		0.0500	0.2056		mg/L		112	75 - 125
Chromium	ND		0.200	0.1969		mg/L		98	75 - 125
Copper	ND		0.250	0.2492		mg/L		100	75 - 125
Iron	59.3		1.00	62.89	4	mg/L		355	75 - 125
Lead	ND		0.0500	0.05190		mg/L		104	75 - 125
Manganese	2.41		0.500	2.985	4	mg/L		115	75 - 125
Selenium	ND		0.0500	0.05310		mg/L		106	75 - 125

Lab Sample ID: 490-23123-A-12-E MSD

Matrix: Water

Analysis Batch: 69974

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 69578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aluminum	ND		2.00	2.039		mg/L		102	75 - 125	2	20
Arsenic	0.150		0.0500	0.1924		mg/L		85	75 - 125	7	20
Chromium	ND		0.200	0.1907		mg/L		95	75 - 125	3	20
Copper	ND		0.250	0.2529		mg/L		101	75 - 125	1	20
Iron	59.3		1.00	58.70	4	mg/L		-64	75 - 125	7	20
Lead	ND		0.0500	0.05110		mg/L		102	75 - 125	2	20
Manganese	2.41		0.500	2.822	4	mg/L		82	75 - 125	6	20
Selenium	ND		0.0500	0.05210		mg/L		104	75 - 125	2	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 490-70295/1-A
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70295

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Arsenic	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Chromium	ND		0.00500	mg/L		04/05/13 08:31	04/05/13 12:48	1
Copper	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Iron	ND		0.100	mg/L		04/05/13 08:31	04/05/13 12:48	1
Lead	ND		0.00500	mg/L		04/05/13 08:31	04/05/13 12:48	1
Manganese	ND		0.0150	mg/L		04/05/13 08:31	04/05/13 12:48	1
Selenium	ND		0.0100	mg/L		04/05/13 08:31	04/05/13 12:48	1

Lab Sample ID: LCS 490-70295/2-A
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	2.128		mg/L		106	80 - 120
Arsenic	0.0500	0.04670		mg/L		93	80 - 120
Chromium	0.200	0.2087		mg/L		104	80 - 120
Copper	0.250	0.2523		mg/L		101	80 - 120
Iron	1.00	1.061		mg/L		106	80 - 120
Lead	0.0500	0.05070		mg/L		101	80 - 120
Manganese	0.500	0.5337		mg/L		107	80 - 120
Selenium	0.0500	0.04830		mg/L		97	80 - 120

Lab Sample ID: 490-23206-G-9-B MS
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	17.3		2.00	23.59	4	mg/L		314	75 - 125
Arsenic	0.0218		0.0500	0.03910	F	mg/L		35	75 - 125
Chromium	0.0537		0.200	0.2428		mg/L		95	75 - 125
Copper	0.0568		0.250	0.3069		mg/L		100	75 - 125
Iron	72.7		1.00	75.01	4	mg/L		235	75 - 125
Lead	0.0607		0.0500	0.06080	F	mg/L		0.2	75 - 125
Manganese	3.62		0.500	4.109	4	mg/L		99	75 - 125
Selenium	ND		0.0500	0.03410	F	mg/L		52	75 - 125

Lab Sample ID: 490-23206-G-9-C MSD
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	17.3		2.00	23.37	4	mg/L		303	75 - 125	1	20
Arsenic	0.0218		0.0500	0.04280	F	mg/L		42	75 - 125	9	20
Chromium	0.0537		0.200	0.2404		mg/L		93	75 - 125	1	20
Copper	0.0568		0.250	0.2997		mg/L		97	75 - 125	2	20
Iron	72.7		1.00	74.33	4	mg/L		167	75 - 125	1	20
Lead	0.0607		0.0500	0.06390	F	mg/L		6	75 - 125	5	20
Manganese	3.62		0.500	4.097	4	mg/L		96	75 - 125	0	20

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-23206-G-9-C MSD
Matrix: Water
Analysis Batch: 70690

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		0.0500	0.03760	F	mg/L		59	75 - 125	10	20

Method: 9050A - Specific Conductance

Lab Sample ID: MB 490-70628/2
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	ND		10.0	umhos/cm			04/06/13 15:14	1

Lab Sample ID: 490-22777-C-10 DU
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance (25C)	59.5		59.50		umhos/cm		0	20

Lab Sample ID: 490-23157-A-20-A DU
Matrix: Water
Analysis Batch: 70628

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance (25C)	179		178.8		umhos/cm		0	20

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: LCS 490-71473/1
Matrix: Water
Analysis Batch: 71473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	228	237.0		mV vs. NHE		104	96 - 104

Lab Sample ID: LCSD 490-71473/4
Matrix: Water
Analysis Batch: 71473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oxidation Reduction Potential	228	237.0		mV vs. NHE		104	96 - 104	0	20

Lab Sample ID: 490-23087-21 DU
Matrix: Water
Analysis Batch: 71473

Client Sample ID: MW-13S-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Oxidation Reduction Potential	430	H	430.0		mV vs. NHE		0	20

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS VOA

Analysis Batch: 69277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-1	Trip Blank-1	Total/NA	Water	8260B	
490-23087-2	Trip Blank-2	Total/NA	Water	8260B	
490-23087-3	MW-13 ISOC	Total/NA	Water	8260B	
490-23087-6	OR-3W	Total/NA	Water	8260B	
490-23087-8	OR-5S	Total/NA	Water	8260B	
490-23087-9	Trip Blank-3	Total/NA	Water	8260B	
490-23087-10	OR-10S	Total/NA	Water	8260B	
490-23087-11	Trip Blank-4	Total/NA	Water	8260B	
490-23087-12	OS-20S	Total/NA	Water	8260B	
490-23087-13	Trip Blank-5	Total/NA	Water	8260B	
490-23087-15	OS-10S	Total/NA	Water	8260B	
490-23087-16	Trip Blank-6	Total/NA	Water	8260B	
490-23087-17	Trip Blank-7	Total/NA	Water	8260B	
490-23087-18	OS-5S	Total/NA	Water	8260B	
490-23087-23	Trip Blank-8	Total/NA	Water	8260B	
LCS 490-69277/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69277/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69277/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-19	OS-5E	Total/NA	Water	8260B	
490-23087-20	OS-10E	Total/NA	Water	8260B	
490-23087-22	MW-13S-1	Total/NA	Water	8260B	
LCS 490-69278/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69278/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69278/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8260B	
490-23087-4	OR-10W	Total/NA	Water	8260B	
490-23087-5	OR-5W	Total/NA	Water	8260B	
490-23087-7	OR-3S	Total/NA	Water	8260B	
490-23087-10	OR-10S	Total/NA	Water	8260B	
490-23087-12	OS-20S	Total/NA	Water	8260B	
490-23087-14	OS-15S	Total/NA	Water	8260B	
490-23087-15	OS-10S	Total/NA	Water	8260B	
490-23087-18	OS-5S	Total/NA	Water	8260B	
490-23087-22	MW-13S-1	Total/NA	Water	8260B	
LCS 490-69679/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69679/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69679/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 69767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8260B	
LCS 490-69767/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-69767/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-69767/7	Method Blank	Total/NA	Water	8260B	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS VOA (Continued)

Analysis Batch: 70865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8260B	
LCS 490-70865/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-70865/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-70865/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 69074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3510C	
490-23087-4	OR-10W	Total/NA	Water	3510C	
490-23087-5	OR-5W	Total/NA	Water	3510C	
490-23087-6	OR-3W	Total/NA	Water	3510C	
490-23087-7	OR-3S	Total/NA	Water	3510C	
490-23087-8	OR-5S	Total/NA	Water	3510C	
490-23087-10	OR-10S	Total/NA	Water	3510C	
490-23087-12	OS-20S	Total/NA	Water	3510C	
490-23087-14	OS-15S	Total/NA	Water	3510C	
490-23087-15	OS-10S	Total/NA	Water	3510C	
490-23087-18	OS-5S	Total/NA	Water	3510C	
490-23087-19	OS-5E	Total/NA	Water	3510C	
490-23087-20	OS-10E	Total/NA	Water	3510C	
490-23087-21	MW-13S-2	Total/NA	Water	3510C	
490-23087-22	MW-13S-1	Total/NA	Water	3510C	
LCS 490-69074/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-69074/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 69522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8270D	69074
490-23087-5	OR-5W	Total/NA	Water	8270D	69074
490-23087-8	OR-5S	Total/NA	Water	8270D	69074
490-23087-10	OR-10S	Total/NA	Water	8270D	69074
490-23087-12	OS-20S	Total/NA	Water	8270D	69074
490-23087-14	OS-15S	Total/NA	Water	8270D	69074
MB 490-69074/1-A	Method Blank	Total/NA	Water	8270D	69074

Analysis Batch: 69851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-4	OR-10W	Total/NA	Water	8270D	69074
490-23087-6	OR-3W	Total/NA	Water	8270D	69074
490-23087-7	OR-3S	Total/NA	Water	8270D	69074
490-23087-15	OS-10S	Total/NA	Water	8270D	69074
490-23087-18	OS-5S	Total/NA	Water	8270D	69074
490-23087-19	OS-5E	Total/NA	Water	8270D	69074
490-23087-20	OS-10E	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074
490-23087-22	MW-13S-1	Total/NA	Water	8270D	69074
LCS 490-69074/2-A	Lab Control Sample	Total/NA	Water	8270D	69074



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC/MS Semi VOA (Continued)

Analysis Batch: 70080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	8270D	69074
490-23087-21	MW-13S-2	Total/NA	Water	8270D	69074

GC VOA

Analysis Batch: 69126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-18	OS-5S	Total/NA	Water	8015C	
490-23087-19	OS-5E	Total/NA	Water	8015C	
490-23087-20	OS-10E	Total/NA	Water	8015C	
LCS 490-69126/9	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69126/47	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69126/24	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 69398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	8015C	
LCS 490-69398/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69398/46	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69398/15	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 69585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8015C	
490-23087-4	OR-10W	Total/NA	Water	8015C	
490-23087-5	OR-5W	Total/NA	Water	8015C	
490-23087-6	OR-3W	Total/NA	Water	8015C	
490-23087-7	OR-3S	Total/NA	Water	8015C	
490-23087-8	OR-5S	Total/NA	Water	8015C	
490-23087-10	OR-10S	Total/NA	Water	8015C	
490-23087-12	OS-20S	Total/NA	Water	8015C	
490-23087-14	OS-15S	Total/NA	Water	8015C	
490-23087-15	OS-10S	Total/NA	Water	8015C	
490-23087-22	MW-13S-1	Total/NA	Water	8015C	
LCS 490-69585/25	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-69585/26	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-69585/27	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 69051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3510C	
490-23087-4	OR-10W	Total/NA	Water	3510C	
490-23087-5	OR-5W	Total/NA	Water	3510C	
490-23087-6	OR-3W	Total/NA	Water	3510C	
490-23087-7	OR-3S	Total/NA	Water	3510C	
490-23087-8	OR-5S	Total/NA	Water	3510C	
490-23087-10	OR-10S	Total/NA	Water	3510C	
490-23087-12	OS-20S	Total/NA	Water	3510C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

GC Semi VOA (Continued)

Prep Batch: 69051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-14	OS-15S	Total/NA	Water	3510C	
490-23087-15	OS-10S	Total/NA	Water	3510C	
490-23087-18	OS-5S	Total/NA	Water	3510C	
490-23087-19	OS-5E	Total/NA	Water	3510C	
490-23087-20	OS-10E	Total/NA	Water	3510C	
490-23087-21	MW-13S-2	Total/NA	Water	3510C	
490-23087-22	MW-13S-1	Total/NA	Water	3510C	
LCS 490-69051/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-69051/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 69244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	8015C	69051
490-23087-4	OR-10W	Total/NA	Water	8015C	69051
490-23087-5	OR-5W	Total/NA	Water	8015C	69051
490-23087-6	OR-3W	Total/NA	Water	8015C	69051
490-23087-7	OR-3S	Total/NA	Water	8015C	69051
490-23087-8	OR-5S	Total/NA	Water	8015C	69051
490-23087-14	OS-15S	Total/NA	Water	8015C	69051
490-23087-18	OS-5S	Total/NA	Water	8015C	69051
490-23087-19	OS-5E	Total/NA	Water	8015C	69051
490-23087-20	OS-10E	Total/NA	Water	8015C	69051
LCS 490-69051/2-A	Lab Control Sample	Total/NA	Water	8015C	69051
MB 490-69051/1-A	Method Blank	Total/NA	Water	8015C	69051

Analysis Batch: 69519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	8015C	69051
490-23087-12	OS-20S	Total/NA	Water	8015C	69051
490-23087-15	OS-10S	Total/NA	Water	8015C	69051
490-23087-21	MW-13S-2	Total/NA	Water	8015C	69051
490-23087-22	MW-13S-1	Total/NA	Water	8015C	69051

HPLC/IC

Analysis Batch: 70515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-19 DU	OS-5E	Total/NA	Water	300.0	
490-23087-19 MS	OS-5E	Total/NA	Water	300.0	
LCS 490-70515/4	Lab Control Sample	Total/NA	Water	300.0	
MB 490-70515/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 70582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	300.0	
490-23087-4	OR-10W	Total/NA	Water	300.0	
490-23087-5	OR-5W	Total/NA	Water	300.0	
490-23087-6	OR-3W	Total/NA	Water	300.0	
490-23087-7	OR-3S	Total/NA	Water	300.0	
490-23087-8	OR-5S	Total/NA	Water	300.0	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

HPLC/IC (Continued)

Analysis Batch: 70582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-10	OR-10S	Total/NA	Water	300.0	
490-23087-12	OS-20S	Total/NA	Water	300.0	
490-23087-14	OS-15S	Total/NA	Water	300.0	
490-23087-18	OS-5S	Total/NA	Water	300.0	
490-23087-19	OS-5E	Total/NA	Water	300.0	
490-23087-20	OS-10E	Total/NA	Water	300.0	
490-23087-21	MW-13S-2	Total/NA	Water	300.0	
490-23087-22	MW-13S-1	Total/NA	Water	300.0	
LCS 490-70582/4	Lab Control Sample	Total/NA	Water	300.0	
LCS D 490-70582/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-70582/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 71145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-15	OS-10S	Total/NA	Water	300.0	
LCS 490-71145/4	Lab Control Sample	Total/NA	Water	300.0	
LCS D 490-71145/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-71145/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 69578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	3010A	
490-23087-4	OR-10W	Total/NA	Water	3010A	
490-23087-5	OR-5W	Total/NA	Water	3010A	
490-23087-6	OR-3W	Total/NA	Water	3010A	
490-23087-7	OR-3S	Total/NA	Water	3010A	
490-23087-8	OR-5S	Total/NA	Water	3010A	
490-23087-10	OR-10S	Total/NA	Water	3010A	
490-23087-12	OS-20S	Total/NA	Water	3010A	
490-23087-14	OS-15S	Total/NA	Water	3010A	
490-23087-15	OS-10S	Total/NA	Water	3010A	
490-23087-18	OS-5S	Total/NA	Water	3010A	
490-23087-19	OS-5E	Total/NA	Water	3010A	
490-23087-20	OS-10E	Total/NA	Water	3010A	
490-23087-22	MW-13S-1	Total/NA	Water	3010A	
490-23123-A-12-D MS	Matrix Spike	Total/NA	Water	3010A	
490-23123-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-69578/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-69578/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 69974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-3	MW-13 ISOC	Total/NA	Water	6010C	69578
490-23087-4	OR-10W	Total/NA	Water	6010C	69578
490-23087-5	OR-5W	Total/NA	Water	6010C	69578
490-23087-6	OR-3W	Total/NA	Water	6010C	69578
490-23087-7	OR-3S	Total/NA	Water	6010C	69578
490-23087-8	OR-5S	Total/NA	Water	6010C	69578



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Metals (Continued)

Analysis Batch: 69974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-12	OS-20S	Total/NA	Water	6010C	69578
490-23087-14	OS-15S	Total/NA	Water	6010C	69578
490-23087-18	OS-5S	Total/NA	Water	6010C	69578
490-23087-19	OS-5E	Total/NA	Water	6010C	69578
490-23087-20	OS-10E	Total/NA	Water	6010C	69578
490-23087-22	MW-13S-1	Total/NA	Water	6010C	69578
490-23123-A-12-D MS	Matrix Spike	Total/NA	Water	6010C	69578
490-23123-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	69578
LCS 490-69578/2-A	Lab Control Sample	Total/NA	Water	6010C	69578
MB 490-69578/1-A	Method Blank	Total/NA	Water	6010C	69578

Analysis Batch: 70104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-6	OR-3W	Total/NA	Water	6010C	69578
490-23087-10	OR-10S	Total/NA	Water	6010C	69578
490-23087-15	OS-10S	Total/NA	Water	6010C	69578

Prep Batch: 70295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	3010A	
490-23206-G-9-B MS	Matrix Spike	Total/NA	Water	3010A	
490-23206-G-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-70295/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-70295/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 70690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	6010C	70295
490-23206-G-9-B MS	Matrix Spike	Total/NA	Water	6010C	70295
490-23206-G-9-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	70295
LCS 490-70295/2-A	Lab Control Sample	Total/NA	Water	6010C	70295
MB 490-70295/1-A	Method Blank	Total/NA	Water	6010C	70295

General Chemistry

Analysis Batch: 70628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-22777-C-10 DU	Duplicate	Total/NA	Water	9050A	
490-23087-21	MW-13S-2	Total/NA	Water	9050A	
490-23157-A-20-A DU	Duplicate	Soluble	Water	9050A	
LCS 490-70628/4	Lab Control Sample	Total/NA	Water	9050A	
LCSD 490-70628/5	Lab Control Sample Dup	Total/NA	Water	9050A	
MB 490-70628/2	Method Blank	Total/NA	Water	9050A	

Analysis Batch: 71473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23087-21	MW-13S-2	Total/NA	Water	SM 2580B	
490-23087-21 DU	MW-13S-2	Total/NA	Water	SM 2580B	
LCS 490-71473/1	Lab Control Sample	Total/NA	Water	SM 2580B	
LCSD 490-71473/4	Lab Control Sample Dup	Total/NA	Water	SM 2580B	

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-23087-1

Date Collected: 03/27/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 16:52	BM	TAL NSH

Client Sample ID: Trip Blank-2

Lab Sample ID: 490-23087-2

Date Collected: 03/27/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 17:19	BM	TAL NSH

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-23087-3

Date Collected: 03/27/13 10:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 20:28	BM	TAL NSH
Total/NA	Analysis	8260B		10	69679	04/03/13 00:19	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/02/13 23:48	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 04:09	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		5	69244	04/02/13 00:24	JL	TAL NSH
Total/NA	Analysis	300.0		100	70582	04/06/13 19:20	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 18:28	KJ	TAL NSH

Client Sample ID: OR-10W

Lab Sample ID: 490-23087-4

Date Collected: 03/27/13 10:55

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 22:31	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 16:15	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 00:07	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		2	69244	04/02/13 00:40	JL	TAL NSH
Total/NA	Analysis	300.0		100	70582	04/06/13 19:39	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:04	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5W

Lab Sample ID: 490-23087-5

Date Collected: 03/27/13 11:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 21:36	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:10	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 00:37	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 15:28	JL	TAL NSH
Total/NA	Analysis	300.0		50	70582	04/06/13 19:58	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:08	KJ	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-23087-6

Date Collected: 03/27/13 12:55

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 21:49	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 16:38	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 01:07	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 15:44	JL	TAL NSH
Total/NA	Analysis	300.0		200	70582	04/06/13 20:17	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:12	KJ	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		2	70104	04/04/13 10:23	KJ	TAL NSH

Client Sample ID: OR-3S

Lab Sample ID: 490-23087-7

Date Collected: 03/27/13 13:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 21:09	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:01	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 01:38	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 16:00	JL	TAL NSH
Total/NA	Analysis	300.0		200	70582	04/06/13 20:37	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:15	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OR-5S

Lab Sample ID: 490-23087-8

Date Collected: 03/27/13 14:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 22:43	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:33	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 02:08	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 16:17	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 20:56	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:19	KJ	TAL NSH

Client Sample ID: Trip Blank-3

Lab Sample ID: 490-23087-9

Date Collected: 03/27/13 08:10

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 17:46	BM	TAL NSH

Client Sample ID: OR-10S

Lab Sample ID: 490-23087-10

Date Collected: 03/27/13 15:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 23:11	BM	TAL NSH
Total/NA	Analysis	8260B		50	69679	04/03/13 00:46	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 00:56	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		10	70080	04/04/13 20:12	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 04:39	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		10	69519	04/02/13 15:05	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/06/13 21:15	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		10	70104	04/04/13 10:27	KJ	TAL NSH

Client Sample ID: Trip Blank-4

Lab Sample ID: 490-23087-11

Date Collected: 03/27/13 08:15

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 18:13	BM	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-20S

Lab Sample ID: 490-23087-12

Date Collected: 03/27/13 16:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 23:38	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 01:13	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 01:18	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 02:38	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		4	69519	04/02/13 15:21	JL	TAL NSH
Total/NA	Analysis	300.0		10	70582	04/06/13 21:34	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:39	KJ	TAL NSH

Client Sample ID: Trip Blank-5

Lab Sample ID: 490-23087-13

Date Collected: 03/27/13 08:20

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 18:40	BM	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-23087-14

Date Collected: 03/27/13 16:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69679	04/02/13 22:03	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69522	04/03/13 01:41	KP	TAL NSH
Total/NA	Analysis	8015C		1	69585	04/03/13 03:09	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:06	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 21:53	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:42	KJ	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/02/13 00:32	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 01:40	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:24	KP	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-10S

Lab Sample ID: 490-23087-15

Date Collected: 03/27/13 17:30

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	69585	04/03/13 03:39	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		2	69519	04/02/13 13:54	JL	TAL NSH
Total/NA	Analysis	300.0		100	71145	04/09/13 21:33	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		100	70104	04/04/13 10:31	KJ	TAL NSH

Client Sample ID: Trip Blank-6

Lab Sample ID: 490-23087-16

Date Collected: 03/28/13 08:00

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 19:07	BM	TAL NSH

Client Sample ID: Trip Blank-7

Lab Sample ID: 490-23087-17

Date Collected: 03/28/13 08:05

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 19:34	BM	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-23087-18

Date Collected: 03/28/13 09:40

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/02/13 00:59	BM	TAL NSH
Total/NA	Analysis	8260B		5	69679	04/03/13 02:08	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 17:47	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 01:52	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:38	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/06/13 23:09	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:50	KJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: OS-5E

Lab Sample ID: 490-23087-19

Date Collected: 03/28/13 10:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 06:50	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 18:55	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 02:20	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 17:54	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 23:28	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:53	KJ	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-23087-20

Date Collected: 03/28/13 11:45

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 07:17	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 19:18	KP	TAL NSH
Total/NA	Analysis	8015C		1	69126	04/02/13 02:48	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		1	69244	04/01/13 18:11	JL	TAL NSH
Total/NA	Analysis	300.0		5	70582	04/06/13 23:47	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 17:57	KJ	TAL NSH

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	69767	04/03/13 20:14	JM	TAL NSH
Total/NA	Analysis	8260B		20	70865	04/09/13 02:33	JM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 18:09	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		10	69851	04/03/13 18:32	KP	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		20	70080	04/04/13 20:35	KP	TAL NSH
Total/NA	Analysis	8015C		10	69398	04/02/13 16:46	BH	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		100	69519	04/02/13 15:37	JL	TAL NSH
Total/NA	Analysis	300.0		500	70582	04/07/13 00:06	KD	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Client Sample ID: MW-13S-2

Lab Sample ID: 490-23087-21

Date Collected: 03/28/13 09:50

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			70295	04/05/13 08:31	NLI	TAL NSH
Total/NA	Analysis	6010C		10	70690	04/05/13 16:01	BB	TAL NSH
Total/NA	Analysis	9050A		1	70628	04/06/13 15:14	RG	TAL NSH
Total/NA	Analysis	SM 2580B		1	71473	04/10/13 15:05	RG	TAL NSH

Client Sample ID: MW-13S-1

Lab Sample ID: 490-23087-22

Date Collected: 03/27/13 17:40

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69278	04/02/13 07:44	BM	TAL NSH
Total/NA	Analysis	8260B		10	69679	04/03/13 03:29	BM	TAL NSH
Total/NA	Prep	3510C			69074	03/30/13 14:44	NR	TAL NSH
Total/NA	Analysis	8270D		1	69851	04/03/13 19:41	KP	TAL NSH
Total/NA	Analysis	8015C		5	69585	04/03/13 05:10	GM	TAL NSH
Total/NA	Prep	3510C			69051	03/30/13 13:37	NR	TAL NSH
Total/NA	Analysis	8015C		50	69519	04/02/13 14:26	JL	TAL NSH
Total/NA	Analysis	300.0		20	70582	04/07/13 00:25	KD	TAL NSH
Total/NA	Prep	3010A			69578	04/02/13 12:54	NLI	TAL NSH
Total/NA	Analysis	6010C		1	69974	04/03/13 18:00	KJ	TAL NSH

Client Sample ID: Trip Blank-8

Lab Sample ID: 490-23087-23

Date Collected: 03/28/13 00:01

Matrix: Water

Date Received: 03/29/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	69277	04/01/13 20:01	BM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
9050A	Specific Conductance	SW846	TAL NSH
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	TAL NSH

Protocol References:

- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM = "Standard Methods For The Examination Of Water And Wastewater",
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13040074

TestAmerica Job ID: 490-23087-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	04-30-14 *
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

COOLER RECEIPT FORM



490-23087 Chain of Custody

Cooler Received/Opened On: 3/29/2013 @0800

1. Tracking # 3445 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

DR-3W
0.2-5W
7B-1

4/4/13
4
6
7
15
18
21

COOLER RECEIPT FOR

Cooler Received/Opened On: 3/29/2013 @0800

1. Tracking # 3401 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: Ø

5. Were the seals intact, signed, and dated correctly? YES...NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) S

7. Were custody seals on containers: YES NO and Intact YES...NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) S

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) M

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

DR-LOW
WISOM
TH-2

COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3456 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [initials]

7. Were custody seals on containers: YES NO and Intact YES NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) [initials]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [initials]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [initials]

I certify that I attached a label with the unique LIMS number to each container (initial) [initials]

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#



OR-35
OL-55
TV-3

COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3456 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 0.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES.. NO Was a NCM generated? YES...NO...# _____



COOLER RECEIPT FORM

Loc: 490
23087

Cooler Received/Opened On 3/29/2013 @ 0800

1. Tracking # 3386 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) mn

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) H

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # _____

US-103
OS-155
28.7

COOLER RECEIPT FORM

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3434 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 1.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) [Signature]

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) [Signature]

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) [Signature]

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) [Signature]

I certify that I attached a label with the unique LIMS number to each container (initial) [Signature]

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...#

OS-55
52
except 1 L.B.
20-6

COOLER RECEIPT FORM

Cooler Received/Opened On 3/29/2013 @ 0800

1. Tracking # 3397 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO... NA

6. Were custody papers inside cooler? YES... NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES... NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1st

I certify that I unloaded the cooler and answered questions 7-14 (initial) B

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES... NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) J

21. Were there Non-Conformance issues at login? YES... NO... Was a NCM generated? YES... NO...# _____

135-1
135-2
TB-7
3/29/13

COOLER RECEIPT FORM

Cooler Received/Opened On : 03/29/13 @ 0800

Tracking # 3432 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

1. Temperature of rep. sample or temp blank when opened: 1.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# _____

OS-
10 E
and
24-8

1 liter
of
OS-52

Chain of Custody Record

Client Information

Client Contact: *Tracy H. Brown*
Lab Customer: *704-357-8600*
Company: *Duke Energy Corporation*

Phone: *704-357-8600*
E-Mail: *shelli.brown@testamericainc.com*

Carrier Tracking No(s):

COCC No: *490-9599-4353.2*
Page: *1*

Duke Energy Corporation
13339 Hegers Ferry Road
Address:

City: *Huntersville*
State, Zip: *NC, 28078*

Due Date Requested:
TAT Requested (days):

Analysis Requested

Job #:

PO #: *567942*
WFO #:

Field Filtered Sample (Yes or No):
Perform MS/MSD (Yes or No):

Preservation Codes:

Email: *labcustomer@duke-energy.com*
Project Name: *Pine Street MGP (Spartanburg)*
Site: *SSOW#:*

Project #: *49001290*

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH	8016C_DRO	8016C_GRO / 8260B VOC	300 - Sulfate	6010 - Al, As, Cr, Cu, Fe, Pb, Mn, Se	8260B VOC
		N	A	A	N	D	A

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - NaHSO4
- F - MeOH
- G - Amchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- M - Hexane
- N - None
- O - As2O2
- P - Na2O4S
- Q - Na2S03
- R - Na2S2S03
- S - H2SO4
- T - TSP Dodecylhydrate
- U - Acetone
- V - MCAA
- W - pH 4.5
- Z - other (specify)

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (W=water, S=solid, O=material)

Preservation Code

Total Number of containers

Special Instructions/Note:

<i>TRIA Bnk-1</i>	<i>3-27-13</i>	<i>800</i>	<i>G</i>	<i>Water</i>	<i>W</i>				
<i>TRIA Bnk-2</i>	<i>3-27-13</i>	<i>805</i>	<i>G</i>	<i>Water</i>					
<i>MW-13 ISOC</i>	<i>3-27-13</i>	<i>1015</i>	<i>G</i>	<i>Water</i>					
<i>OR-10W</i>	<i>3-27-13</i>	<i>1055</i>	<i>G</i>	<i>Water</i>					
<i>OR-5W</i>	<i>3-27-13</i>	<i>1150</i>	<i>G</i>	<i>Water</i>					
<i>OR-3W</i>	<i>3-27-13</i>	<i>1255</i>	<i>G</i>	<i>Water</i>					
<i>OR-3S</i>	<i>3-27-13</i>	<i>1350</i>	<i>G</i>	<i>Water</i>					
<i>OR-5S</i>	<i>3-27-13</i>	<i>1430</i>	<i>G</i>	<i>W</i>					
<i>TRIA Bnk-3</i>	<i>3-27-13</i>	<i>810</i>	<i>G</i>	<i>W</i>					
<i>OR-10S</i>	<i>3-27-13</i>	<i>1515</i>	<i>G</i>	<i>W</i>					
<i>TRIA Bnk-4</i>	<i>3-27-13</i>	<i>815</i>	<i>G</i>	<i>W</i>					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:

Date: *3/28/13* Time: *7:30*

Received by: *u* Method of Shipment:

Date/Time: *3/28/13 0500* Company: *AMEL*

Relinquished by: *Tracy H. Brown*

Date/Time: *3/28/13*

Received by: *u*

Date/Time: *3/28/13 0500* Company: *AMEL*

Relinquished by:

Date/Time:

Received by:

Date/Time:

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

1 2 3 4 5 6 7 8 9 10 11 12 13

TestAmerica Nashville

2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record



Client Information

Client Contact: **Troy H. Halsey, Lab**
Lab Customer: **204-357-8600**

Company: **Duke Energy Corporation**
Address: **13339 Hagers Ferry Road**
City: **Huntersville**
State/Zip: **NC, 28078**
Phone: **567942**
PO #: **567942**
W/O #: **W/O #**
Email: **labcustomer@duke-energy.com**

Project Name: **Pine Street MGP (Spartanburg)**
Project #: **49001290**
Site: **SSOW#**

Lab P.M.: **Brown, Shail**
E-Mail: **shail.brown@testamericainc.com**
Carrier Tracking No(s):

COCC No: **490-9599-4353.2**
Page: **2**
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefl, B=Trislu, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
05-205	3-27-13	1605	G	Water	X	X	8270D - PAH 8015C_DRO 8015C_GRO / 8260B VOC 300 - Sulfate 6010 - Al, As, Cr, Cu, Fe, Pb, Mn, Se 8260B VOC		
TRIO Blank-5	3-27-13	820	G	Water					
05-155	3-27-13	1650	G	Water					
05-105	3-27-13	1730	G	Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: **May 2 Halsey** Date/Time: **3/28/13 7:30** Company: **AMEL**

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/Note: _____

Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - As/NiO2
 D - Nitric Acid P - Na2OAS
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecahydrate
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - pH 4.5
 L - EDTA Z - other (specify)
 Other: _____

TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: **Tyrell H. / 25446**
 Lab Customer: **704-357-8600**
 Company: **Duke Energy Corporation**
 Address: **13339 Hagers Ferry Road**
 City: **Huntersville**
 State, Zip: **NC, 28078**
 Phone: **567942**
 Email: **labcustomer@duke-energy.com**
 Project Name: **Pine Street MGP (Spartanburg)**
 Site: **SSOW#:**

Lab P/N: **Brown, Shail**
 E-Mail: **shail.brown@testamericainc.com**

Carrier Tracking No(s):

COC No: **490-9599-4353.2**
 Page: **3**

Due Date Requested:

TAT Requested (days):

Analysis Requested

Field/Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
8270D - PAH	N
8016C_DRO	A
8016C_GRO / 8260B VOC	A
300 - Sulfate	N
6010 - Al, As, Cr, Cu, Fe, Pb, Mn, Se	D
8260B VOC	A
ORP + SPECIFIC Conductance	

Total Number of Containers

Special Instructions/Note:

- Job #:
- Preservation Codes:
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - NaHSO4
 - F - MeOH
 - G - Amchlor
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - Other:
 - M - Hexane
 - N - None
 - O - AsH2O2
 - P - Na2O4S
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Dodecahydrate
 - U - Acetone
 - V - MCAA
 - W - pH 4.5
 - Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code (BT=Tissue, A=Air)	Field/Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Carrier Tracking No(s)	Total Number of Containers	Special Instructions/Note
19 Trio Blank-6	3-28-13	202	G	Water						
18 Trio Blank-7	3-28-13	205	G	Water						
17 OS-5S	3-28-13	940	G	Water						
16 OS-5E	3-28-13	1050	G	Water						
15 OS-10E	3-28-13	1145	G	Water						
14 OS-10E MW-13S-2	3-28-13	950	G	Water						
13 MW-13S-1	3-27-13	1740	G	Water						

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: **Ms J Hefelund** Date/Time: **3-28-13/1300** Company: **AMEL**

Relinquished by: **Ms J Hefelund** Date/Time: **3-28-13/1300** Company: **AMEL**

Relinquished by: **Ms J Hefelund** Date/Time: **3-28-13/1300** Company: **AMEL**

Custody/Seals Intact: Yes No Custody Seal No.: **1543**
 Cooler Temperature(s) °C and Other Remarks:

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.		
(2) Save the file & e-mail to:		labcustomer@duke-energy.com
Questions / Problems Call:		704-875-5245
Customer Information		
Name	Office Phone	Cell Phone
Andy Clark	704-357-5630	704-953-6833
Fax	e-Mail Address	
	andy.clark@amec.com	
Accounting Fields		
<i>** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. **</i>	Field Type	Specific Field
Sampling Information		
Sampling Personnel / Contractor	Scheduled Sampling Date	Date Sample Kit Needed
AMEC	3/27/2013	3/25/2013
Shipping Address for Kit		
Name	Phone	Mail Code
Troy Holzschuh	704-357-5616	704-307-1233
Street Address - <u>street address and town needed</u>	State	Zip Code
2801 Yorkmont Rd, Charlotte	NC	28208
Reporting		
Report Due Date	Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard .pdf and excel	
Report To (e-Mail Address 1)	Report To (e-Mail Address 2)	Report to (e-Mail Address 3)
andy.clark@amec.com	angela.adams@amec.com	
Project Specifics		
Project Name		Program Type
Spartanburg MGP		
Site, Location or Station	State	Approximate Number of Days Sampling is Scheduled
Pine Street, Spartanburg	SC	1
Notes, Special Requests, Required Contract Lab to use, etc. (LIMS Job Number-Duke Lab Provides)		
Order is for 15 wells sampled. Please deliver sample jars in coolers by Monday 3-25-13. AMEC will arrange pick up date/time with Candace Bonham, as needed.		
Bottles	Matrix	Variables, Methods
15	Water	VOCs - 8260B
15	Water	PAHs - 8270D
15	Water	Sulfate - 9056
15	Water	TPH - 8015B PHI (GRO and DRO)
15	Water	Metals - 6010B or 6020 (Al, As, Cr, Cu, Fe, Pb, Mn, Se) and sulfate
1	water	Trip Blank



Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-23087-1

Login Number: 23087**List Source: TestAmerica Nashville****List Number: 1****Creator: Buckingham, Paul**

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-32017-1
Client Project/Site: Pine Street MGP J13080225

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
8/14/2013 4:52:14 PM

Shali Brown, Project Manager I
shali.brown@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-32017-1	OS10E	Water	07/30/13 09:10	07/31/13 08:30
490-32017-2	OR10W	Water	07/30/13 09:50	07/31/13 08:30
490-32017-3	OS5E	Water	07/30/13 10:15	07/31/13 08:30
490-32017-4	OR5W	Water	07/30/13 11:10	07/31/13 08:30
490-32017-5	OS5N	Water	07/30/13 11:34	07/31/13 08:30
490-32017-6	OR3W	Water	07/30/13 12:25	07/31/13 08:30
490-32017-7	OS5S	Water	07/30/13 12:50	07/31/13 08:30
490-32017-8	OR3S	Water	07/30/13 13:35	07/31/13 08:30
490-32017-9	OS10S	Water	07/30/13 13:55	07/31/13 08:30
490-32017-10	Trip Blank-1	Water	07/30/13 00:01	07/31/13 08:30
490-32017-11	OR5S	Water	07/30/13 14:30	07/31/13 08:30
490-32017-12	OS15S	Water	07/30/13 14:40	07/31/13 08:30
490-32017-13	MW-13S	Water	07/30/13 14:30	07/31/13 08:30
490-32017-14	Dup-1	Water	07/30/13 00:01	07/31/13 08:30
490-32017-15	OR-10S	Water	07/30/13 15:45	07/31/13 08:30
490-32017-16	MW-13D	Water	07/30/13 16:15	07/31/13 08:30

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Job ID: 490-32017-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP J13080225

Report Number: 490-32017-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 7/31/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 10 coolers at receipt time were -0.4° C, 0.3° C, 0.6° C, 0.7° C, 0.8° C, 1.1° C, 1.3° C, 2.5° C, 2.7° C and 3.4° C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): OR3S (490-32017-8). The container labels list OR3S. The COC lists OR5S.
Reference attached email for client instruction-resolution.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), Trip Blank-1 (490-32017-10), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/06/2013, 08/07/2013 and 08/08/2013.

1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were detected in method blank MB 490-98164/4 at levels exceeding the reporting limit.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Job ID: 490-32017-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Acetone was detected in method blank MB 490-98341/4 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Samples OS10S (490-32017-9)[10X], MW-13S (490-32017-13)[50X], Dup-1 (490-32017-14)[50X] and OR-10S (490-32017-15)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 08/01/2013 and 08/03/2013 and analyzed on 08/04/2013, 08/05/2013, 08/06/2013 and 08/07/2013.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 490-97561/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for batch 97561 recovered outside control limits for the following analyte: bis(2-ethylhexyl) phthalate. The method blank contained bis(2-ethylhexyl) phthalate. The associated sample(s) was re-extracted outside holding time. Reprep results confirm original results with good QC for samples: OR3S (490-32017-8) and OR-10S (490-32017-15)

The laboratory control sample (LCS) for batch 97561 recovered outside control limits for the following analyte: bis(2-ethylhexyl) phthalate. Method Blank also contained this analyte. The associated sample(s) was re-extracted outside holding time. Reprep results did not confirm the bis(2-ethylhexyl) phthalate positive result for samples: OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), and MW-13D (490-32017-16)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 97161 and 97561.

Samples OS10S (490-32017-9)[5X], OR5S (490-32017-11)[10X], OS15S (490-32017-12)[5X], MW-13S (490-32017-13)[10X], Dup-1 (490-32017-14)[10X], Dup-1 (490-32017-14)[50X], OR-10S (490-32017-15)[10X] and OR-10S (490-32017-15)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analysis. All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 08/05/2013, 08/06/2013 and 08/07/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 97752 and 98238. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No difficulties were encountered during the GRO analysis. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 08/03/2013 and analyzed on 08/03/2013, 08/04/2013 and 08/05/2013.

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Job ID: 490-32017-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 97497.

The following sample(s) was diluted due to the nature of the sample matrix: Dup-1 (490-32017-14), MW-13S (490-32017-13), OR-10S (490-32017-15). Elevated reporting limits (RLs) are provided.

Samples MW-13S (490-32017-13)[10X], Dup-1 (490-32017-14)[10X] and OR-10S (490-32017-15)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analysis. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/01/2013 and analyzed on 08/06/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 98641.

The following sample(s) was diluted due to the abundance of analytes: Na and S OR-10S (490-32017-15), OR10W (490-32017-2), OR3S (490-32017-8), OR3W (490-32017-6), OR5W (490-32017-4), OS5S (490-32017-7). Elevated reporting limits (RLs) are provided.

Samples OR10W (490-32017-2)[100X], OR5W (490-32017-4)[100X], OR3W (490-32017-6)[100X], OS5S (490-32017-7)[10X], OR3S (490-32017-8)[10X] and OR-10S (490-32017-15)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

SULFATE

Samples OS10E (490-32017-1), OR10W (490-32017-2), OS5E (490-32017-3), OR5W (490-32017-4), OS5N (490-32017-5), OR3W (490-32017-6), OS5S (490-32017-7), OR3S (490-32017-8), OS10S (490-32017-9), OR5S (490-32017-11), OS15S (490-32017-12), MW-13S (490-32017-13), Dup-1 (490-32017-14), OR-10S (490-32017-15) and MW-13D (490-32017-16) were analyzed for sulfate in accordance with EPA Method 300.0. The samples were analyzed on 08/03/2013, 08/06/2013 and 08/07/2013.

Sulfate failed the recovery criteria low for the MS of sample OS10EMS (490-32017-1) in batch 490-97131. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

Sulfate failed the recovery criteria low for the MS of sample 490-32017-12 in batch 490-97131. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries met acceptance criteria.

Samples OR10W (490-32017-2)[100X], OR5W (490-32017-4)[100X], OR3W (490-32017-6)[200X], OS5S (490-32017-7)[20X], OR3S (490-32017-8)[20X], OS10S (490-32017-9)[10X], OR5S (490-32017-11)[5X], OS15S (490-32017-12)[5X], MW-13S (490-32017-13)[10X], Dup-1 (490-32017-14)[10X] and OR-10S (490-32017-15)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the sulfate analysis. All other quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.

HPLC/IC

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10E

Lab Sample ID: 490-32017-1

Date Collected: 07/30/13 09:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 00:07	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 00:07	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 00:07	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 00:07	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 00:07	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 00:07	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 00:07	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 00:07	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 00:07	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 00:07	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 00:07	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 00:07	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 00:07	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 00:07	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 00:07	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 00:07	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 00:07	1
2-Hexanone	ND		5.00	ug/L			08/07/13 00:07	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 00:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 00:07	1
Acetone	ND		5.00	ug/L			08/07/13 00:07	1
Benzene	ND		1.00	ug/L			08/07/13 00:07	1
Bromobenzene	ND		1.00	ug/L			08/07/13 00:07	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 00:07	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 00:07	1
Bromoform	ND		1.00	ug/L			08/07/13 00:07	1
Bromomethane	ND		1.00	ug/L			08/07/13 00:07	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 00:07	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 00:07	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 00:07	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 00:07	1
Chloroethane	ND		1.00	ug/L			08/07/13 00:07	1
Chloroform	ND		1.00	ug/L			08/07/13 00:07	1
Chloromethane	ND		1.00	ug/L			08/07/13 00:07	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 00:07	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 00:07	1
Dibromomethane	ND		1.00	ug/L			08/07/13 00:07	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 00:07	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 00:07	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 00:07	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10E

Lab Sample ID: 490-32017-1

Date Collected: 07/30/13 09:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 00:07	1
Naphthalene	ND		5.00	ug/L			08/07/13 00:07	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 00:07	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
Styrene	ND		1.00	ug/L			08/07/13 00:07	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 00:07	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 00:07	1
Toluene	ND		1.00	ug/L			08/07/13 00:07	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 00:07	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 00:07	1
Trichloroethene	ND		1.00	ug/L			08/07/13 00:07	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 00:07	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 00:07	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/07/13 00:07	1
4-Bromofluorobenzene (Surr)	99		70 - 130		08/07/13 00:07	1
Dibromofluoromethane (Surr)	100		70 - 130		08/07/13 00:07	1
Toluene-d8 (Surr)	99		70 - 130		08/07/13 00:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
1,2-Dichlorobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
1,3-Dichlorobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
1,4-Dichlorobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
1-Methylnaphthalene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4,5-Trichlorophenol	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4,6-Trichlorophenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4-Dichlorophenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4-Dimethylphenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4-Dinitrophenol	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,4-Dinitrotoluene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2,6-Dinitrotoluene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Chloronaphthalene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Chlorophenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Methylnaphthalene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Methylphenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Nitroaniline	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
2-Nitrophenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
3,3'-Dichlorobenzidine	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
3 & 4 Methylphenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
3-Nitroaniline	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4,6-Dinitro-2-methylphenol	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4-Bromophenyl phenyl ether	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4-Chloro-3-methylphenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4-Chlorophenyl phenyl ether	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10E

Lab Sample ID: 490-32017-1

Date Collected: 07/30/13 09:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4-Nitroaniline	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
4-Nitrophenol	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Acenaphthylene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Acenaphthene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Benzo[a]anthracene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Benzo[a]pyrene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Benzo[b]fluoranthene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Benzo[g,h,i]perylene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Benzo[k]fluoranthene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Anthracene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Bis(2-chloroethoxy)methane	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Bis(2-chloroethyl)ether	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Bis(2-ethylhexyl) phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
bis (2-chloroisopropyl) ether	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Butyl benzyl phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Carbazole	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Chrysene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Cresols	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Dibenz(a,h)anthracene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Dibenzofuran	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Diethyl phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Dimethyl phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Di-n-butyl phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Di-n-octyl phthalate	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Fluoranthene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Fluorene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Hexachlorobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Hexachlorobutadiene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Hexachlorocyclopentadiene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Hexachloroethane	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Indeno[1,2,3-cd]pyrene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Isophorone	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Naphthalene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Nitrobenzene	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
N-Nitrosodi-n-propylamine	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Pentachlorophenol	ND		33.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Phenanthrene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Phenol	ND		13.3	ug/L		08/01/13 18:32	08/04/13 02:58	1
Pyrene	ND		2.67	ug/L		08/01/13 18:32	08/04/13 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		10 - 120			08/01/13 18:32	08/04/13 02:58	1
2-Fluorobiphenyl (Surr)	58		29 - 120			08/01/13 18:32	08/04/13 02:58	1
2-Fluorophenol (Surr)	33		10 - 120			08/01/13 18:32	08/04/13 02:58	1
Nitrobenzene-d5 (Surr)	53		27 - 120			08/01/13 18:32	08/04/13 02:58	1
Phenol-d5 (Surr)	24		10 - 120			08/01/13 18:32	08/04/13 02:58	1
Terphenyl-d14 (Surr)	83		13 - 120			08/01/13 18:32	08/04/13 02:58	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10E

Lab Sample ID: 490-32017-1

Date Collected: 07/30/13 09:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/05/13 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		08/05/13 22:56	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		125	ug/L		08/03/13 09:25	08/03/13 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		50 - 150	08/03/13 09:25	08/03/13 20:52	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	17.2		1.00	mg/L			08/03/13 00:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 16:47	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Iron	0.241		0.100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 16:47	1
Manganese	0.0599		0.0150	mg/L		08/01/13 14:00	08/06/13 16:47	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:47	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 16:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR10W

Lab Sample ID: 490-32017-2

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 00:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 00:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 00:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 00:34	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 00:34	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 00:34	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 00:34	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 00:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 00:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 00:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 00:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 00:34	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 00:34	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 00:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 00:34	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 00:34	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 00:34	1
2-Hexanone	ND		5.00	ug/L			08/07/13 00:34	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 00:34	1
Acetone	75.0		5.00	ug/L			08/07/13 00:34	1
Benzene	ND		1.00	ug/L			08/07/13 00:34	1
Bromobenzene	ND		1.00	ug/L			08/07/13 00:34	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 00:34	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 00:34	1
Bromoform	ND		1.00	ug/L			08/07/13 00:34	1
Bromomethane	1.36		1.00	ug/L			08/07/13 00:34	1
Carbon disulfide	1.67		1.00	ug/L			08/07/13 00:34	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 00:34	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 00:34	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 00:34	1
Chloroethane	ND		1.00	ug/L			08/07/13 00:34	1
Chloroform	ND		1.00	ug/L			08/07/13 00:34	1
Chloromethane	9.00		1.00	ug/L			08/07/13 00:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 00:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 00:34	1
Dibromomethane	ND		1.00	ug/L			08/07/13 00:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 00:34	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 00:34	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 00:34	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR10W

Lab Sample ID: 490-32017-2

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 00:34	1
Naphthalene	ND		5.00	ug/L			08/07/13 00:34	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 00:34	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
Styrene	ND		1.00	ug/L			08/07/13 00:34	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 00:34	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 00:34	1
Toluene	ND		1.00	ug/L			08/07/13 00:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 00:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 00:34	1
Trichloroethene	ND		1.00	ug/L			08/07/13 00:34	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 00:34	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 00:34	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		08/07/13 00:34	1
4-Bromofluorobenzene (Surr)	99		70 - 130		08/07/13 00:34	1
Dibromofluoromethane (Surr)	102		70 - 130		08/07/13 00:34	1
Toluene-d8 (Surr)	90		70 - 130		08/07/13 00:34	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
1-Methylnaphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Chloronaphthalene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Chlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Methylnaphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
2-Nitrophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
3-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR10W

Lab Sample ID: 490-32017-2

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
4-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
4-Nitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
Acenaphthylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Acenaphthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Benzo[a]anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Benzo[a]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Carbazole	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Chrysene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Cresols	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Dibenzofuran	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Diethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Dimethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Fluorene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Hexachlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Hexachlorobutadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Hexachloroethane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Isophorone	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Naphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Nitrobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Pentachlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:22	1
Phenanthrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Phenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:22	1
Pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		10 - 120			08/01/13 18:32	08/04/13 03:22	1
2-Fluorobiphenyl (Surr)	71		29 - 120			08/01/13 18:32	08/04/13 03:22	1
2-Fluorophenol (Surr)	43		10 - 120			08/01/13 18:32	08/04/13 03:22	1
Nitrobenzene-d5 (Surr)	69		27 - 120			08/01/13 18:32	08/04/13 03:22	1
Phenol-d5 (Surr)	28		10 - 120			08/01/13 18:32	08/04/13 03:22	1
Terphenyl-d14 (Surr)	88		13 - 120			08/01/13 18:32	08/04/13 03:22	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR10W

Lab Sample ID: 490-32017-2

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/05/13 23:27	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>91</i>		<i>50 - 150</i>				<i>08/05/13 23:27</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		118	ug/L		08/03/13 09:25	08/03/13 21:12	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>76</i>		<i>50 - 150</i>			<i>08/03/13 09:25</i>	<i>08/03/13 21:12</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4500		100	mg/L			08/03/13 20:47	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Chromium	ND		0.500	mg/L		08/01/13 14:00	08/06/13 16:58	100
Cobalt	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Copper	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Iron	15.2		10.0	mg/L		08/01/13 14:00	08/06/13 16:58	100
Lead	ND		0.500	mg/L		08/01/13 14:00	08/06/13 16:58	100
Manganese	1.95		1.50	mg/L		08/01/13 14:00	08/06/13 16:58	100
Nickel	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Selenium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Thallium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 16:58	100
Vanadium	ND		2.00	mg/L		08/01/13 14:00	08/06/13 16:58	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5E

Lab Sample ID: 490-32017-3

Date Collected: 07/30/13 10:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:01	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 01:01	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:01	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 01:01	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 01:01	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 01:01	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 01:01	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 01:01	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 01:01	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 01:01	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 01:01	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 01:01	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:01	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 01:01	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:01	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 01:01	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:01	1
2-Hexanone	ND		5.00	ug/L			08/07/13 01:01	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 01:01	1
Acetone	ND		5.00	ug/L			08/07/13 01:01	1
Benzene	ND		1.00	ug/L			08/07/13 01:01	1
Bromobenzene	ND		1.00	ug/L			08/07/13 01:01	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 01:01	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 01:01	1
Bromoform	ND		1.00	ug/L			08/07/13 01:01	1
Bromomethane	ND		1.00	ug/L			08/07/13 01:01	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 01:01	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 01:01	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 01:01	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 01:01	1
Chloroethane	ND		1.00	ug/L			08/07/13 01:01	1
Chloroform	ND		1.00	ug/L			08/07/13 01:01	1
Chloromethane	ND		1.00	ug/L			08/07/13 01:01	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:01	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:01	1
Dibromomethane	ND		1.00	ug/L			08/07/13 01:01	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 01:01	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 01:01	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 01:01	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5E

Lab Sample ID: 490-32017-3

Date Collected: 07/30/13 10:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 01:01	1
Naphthalene	ND		5.00	ug/L			08/07/13 01:01	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 01:01	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
Styrene	ND		1.00	ug/L			08/07/13 01:01	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 01:01	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 01:01	1
Toluene	ND		1.00	ug/L			08/07/13 01:01	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:01	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:01	1
Trichloroethene	ND		1.00	ug/L			08/07/13 01:01	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 01:01	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 01:01	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/07/13 01:01	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 01:01	1
Dibromofluoromethane (Surr)	99		70 - 130		08/07/13 01:01	1
Toluene-d8 (Surr)	97		70 - 130		08/07/13 01:01	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
1-Methylnaphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Chloronaphthalene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Chlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Methylnaphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
2-Nitrophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
3-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5E

Lab Sample ID: 490-32017-3

Date Collected: 07/30/13 10:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
4-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
4-Nitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
Acenaphthylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Acenaphthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Benzo[a]anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Benzo[a]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Carbazole	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Chrysene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Cresols	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Dibenzofuran	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Diethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Dimethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Fluorene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Hexachlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Hexachlorobutadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Hexachloroethane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Isophorone	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Naphthalene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Nitrobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Pentachlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 03:46	1
Phenanthrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Phenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 03:46	1
Pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		10 - 120			08/01/13 18:32	08/04/13 03:46	1
2-Fluorobiphenyl (Surr)	67		29 - 120			08/01/13 18:32	08/04/13 03:46	1
2-Fluorophenol (Surr)	35		10 - 120			08/01/13 18:32	08/04/13 03:46	1
Nitrobenzene-d5 (Surr)	62		27 - 120			08/01/13 18:32	08/04/13 03:46	1
Phenol-d5 (Surr)	20		10 - 120			08/01/13 18:32	08/04/13 03:46	1
Terphenyl-d14 (Surr)	81		13 - 120			08/01/13 18:32	08/04/13 03:46	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5E

Lab Sample ID: 490-32017-3

Date Collected: 07/30/13 10:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/05/13 23:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	89		50 - 150				08/05/13 23:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		111	ug/L		08/03/13 09:25	08/03/13 21:30	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	78		50 - 150			08/03/13 09:25	08/03/13 21:30	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	51.1		1.00	mg/L			08/03/13 01:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:02	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Iron	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:02	1
Manganese	0.0437		0.0150	mg/L		08/01/13 14:00	08/06/13 17:02	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:02	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:02	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5W

Lab Sample ID: 490-32017-4

Date Collected: 07/30/13 11:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:28	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 01:28	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:28	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 01:28	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 01:28	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 01:28	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 01:28	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 01:28	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 01:28	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 01:28	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 01:28	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 01:28	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:28	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 01:28	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:28	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 01:28	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:28	1
2-Hexanone	ND		5.00	ug/L			08/07/13 01:28	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 01:28	1
Acetone	155		5.00	ug/L			08/07/13 01:28	1
Benzene	ND		1.00	ug/L			08/07/13 01:28	1
Bromobenzene	ND		1.00	ug/L			08/07/13 01:28	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 01:28	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 01:28	1
Bromoform	ND		1.00	ug/L			08/07/13 01:28	1
Bromomethane	3.79		1.00	ug/L			08/07/13 01:28	1
Carbon disulfide	1.85		1.00	ug/L			08/07/13 01:28	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 01:28	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 01:28	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 01:28	1
Chloroethane	ND		1.00	ug/L			08/07/13 01:28	1
Chloroform	ND		1.00	ug/L			08/07/13 01:28	1
Chloromethane	14.3		1.00	ug/L			08/07/13 01:28	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:28	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:28	1
Dibromomethane	ND		1.00	ug/L			08/07/13 01:28	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 01:28	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 01:28	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 01:28	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5W

Lab Sample ID: 490-32017-4

Date Collected: 07/30/13 11:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 01:28	1
Naphthalene	ND		5.00	ug/L			08/07/13 01:28	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 01:28	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
Styrene	ND		1.00	ug/L			08/07/13 01:28	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 01:28	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 01:28	1
Toluene	ND		1.00	ug/L			08/07/13 01:28	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:28	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:28	1
Trichloroethene	ND		1.00	ug/L			08/07/13 01:28	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 01:28	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 01:28	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/07/13 01:28	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 01:28	1
Dibromofluoromethane (Surr)	100		70 - 130		08/07/13 01:28	1
Toluene-d8 (Surr)	93		70 - 130		08/07/13 01:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
1-Methylnaphthalene	39.7		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Chloronaphthalene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Chlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Methylnaphthalene	5.46		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
2-Nitrophenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
3-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5W

Lab Sample ID: 490-32017-4

Date Collected: 07/30/13 11:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
4-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
4-Nitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
Acenaphthylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Acenaphthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Benzo[a]anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Benzo[a]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Carbazole	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Chrysene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Cresols	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Dibenzofuran	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Diethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Dimethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Fluorene	5.39		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Hexachlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Hexachlorobutadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Hexachloroethane	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Isophorone	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Naphthalene	10.5		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Nitrobenzene	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Pentachlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/04/13 04:09	1
Phenanthrene	14.7		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Phenol	ND		11.1	ug/L		08/01/13 18:32	08/04/13 04:09	1
Pyrene	ND		2.22	ug/L		08/01/13 18:32	08/04/13 04:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 120			08/01/13 18:32	08/04/13 04:09	1
2-Fluorobiphenyl (Surr)	65		29 - 120			08/01/13 18:32	08/04/13 04:09	1
2-Fluorophenol (Surr)	37		10 - 120			08/01/13 18:32	08/04/13 04:09	1
Nitrobenzene-d5 (Surr)	63		27 - 120			08/01/13 18:32	08/04/13 04:09	1
Phenol-d5 (Surr)	20		10 - 120			08/01/13 18:32	08/04/13 04:09	1
Terphenyl-d14 (Surr)	73		13 - 120			08/01/13 18:32	08/04/13 04:09	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5W

Lab Sample ID: 490-32017-4

Date Collected: 07/30/13 11:10

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 00:27	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>86</i>		<i>50 - 150</i>				<i>08/06/13 00:27</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	806		125	ug/L		08/03/13 09:25	08/03/13 21:48	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>63</i>		<i>50 - 150</i>			<i>08/03/13 09:25</i>	<i>08/03/13 21:48</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7880		100	mg/L			08/03/13 21:06	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Chromium	ND		0.500	mg/L		08/01/13 14:00	08/06/13 17:06	100
Cobalt	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Copper	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Iron	ND		10.0	mg/L		08/01/13 14:00	08/06/13 17:06	100
Lead	ND		0.500	mg/L		08/01/13 14:00	08/06/13 17:06	100
Manganese	9.39		1.50	mg/L		08/01/13 14:00	08/06/13 17:06	100
Nickel	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Selenium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Thallium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:06	100
Vanadium	ND		2.00	mg/L		08/01/13 14:00	08/06/13 17:06	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5N
Date Collected: 07/30/13 11:34
Date Received: 07/31/13 08:30

Lab Sample ID: 490-32017-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:55	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 01:55	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 01:55	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 01:55	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 01:55	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 01:55	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 01:55	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 01:55	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 01:55	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 01:55	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 01:55	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 01:55	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:55	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 01:55	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 01:55	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 01:55	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:55	1
2-Hexanone	ND		5.00	ug/L			08/07/13 01:55	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 01:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 01:55	1
Acetone	ND		5.00	ug/L			08/07/13 01:55	1
Benzene	ND		1.00	ug/L			08/07/13 01:55	1
Bromobenzene	ND		1.00	ug/L			08/07/13 01:55	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 01:55	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 01:55	1
Bromoform	ND		1.00	ug/L			08/07/13 01:55	1
Bromomethane	ND		1.00	ug/L			08/07/13 01:55	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 01:55	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 01:55	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 01:55	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 01:55	1
Chloroethane	ND		1.00	ug/L			08/07/13 01:55	1
Chloroform	ND		1.00	ug/L			08/07/13 01:55	1
Chloromethane	ND		1.00	ug/L			08/07/13 01:55	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:55	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:55	1
Dibromomethane	ND		1.00	ug/L			08/07/13 01:55	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 01:55	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 01:55	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 01:55	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5N

Lab Sample ID: 490-32017-5

Date Collected: 07/30/13 11:34

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 01:55	1
Naphthalene	ND		5.00	ug/L			08/07/13 01:55	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 01:55	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
Styrene	ND		1.00	ug/L			08/07/13 01:55	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 01:55	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 01:55	1
Toluene	ND		1.00	ug/L			08/07/13 01:55	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 01:55	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 01:55	1
Trichloroethene	ND		1.00	ug/L			08/07/13 01:55	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 01:55	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 01:55	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/07/13 01:55	1
4-Bromofluorobenzene (Surr)	98		70 - 130		08/07/13 01:55	1
Dibromofluoromethane (Surr)	103		70 - 130		08/07/13 01:55	1
Toluene-d8 (Surr)	99		70 - 130		08/07/13 01:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
1,2-Dichlorobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
1,3-Dichlorobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
1,4-Dichlorobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
1-Methylnaphthalene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4,5-Trichlorophenol	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4-Dichlorophenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4-Dimethylphenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4-Dinitrophenol	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,4-Dinitrotoluene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2,6-Dinitrotoluene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Chloronaphthalene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Chlorophenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Methylnaphthalene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Methylphenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Nitroaniline	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
2-Nitrophenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
3 & 4 Methylphenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
3-Nitroaniline	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5N

Lab Sample ID: 490-32017-5

Date Collected: 07/30/13 11:34

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
4-Nitroaniline	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
4-Nitrophenol	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
Acenaphthylene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Acenaphthene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Benzo[a]anthracene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Benzo[a]pyrene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Benzo[b]fluoranthene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Benzo[k]fluoranthene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Anthracene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Butyl benzyl phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Carbazole	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Chrysene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Cresols	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Dibenzofuran	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Diethyl phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Dimethyl phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Di-n-butyl phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Di-n-octyl phthalate	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Fluoranthene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Fluorene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Hexachlorobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Hexachlorobutadiene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Hexachloroethane	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Isophorone	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Naphthalene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Nitrobenzene	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Pentachlorophenol	ND		31.3	ug/L		08/01/13 18:32	08/04/13 04:33	1
Phenanthrene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Phenol	ND		12.5	ug/L		08/01/13 18:32	08/04/13 04:33	1
Pyrene	ND		2.50	ug/L		08/01/13 18:32	08/04/13 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120			08/01/13 18:32	08/04/13 04:33	1
2-Fluorobiphenyl (Surr)	66		29 - 120			08/01/13 18:32	08/04/13 04:33	1
2-Fluorophenol (Surr)	38		10 - 120			08/01/13 18:32	08/04/13 04:33	1
Nitrobenzene-d5 (Surr)	58		27 - 120			08/01/13 18:32	08/04/13 04:33	1
Phenol-d5 (Surr)	25		10 - 120			08/01/13 18:32	08/04/13 04:33	1
Terphenyl-d14 (Surr)	80		13 - 120			08/01/13 18:32	08/04/13 04:33	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5N

Lab Sample ID: 490-32017-5

Date Collected: 07/30/13 11:34

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 00:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	88		50 - 150				08/06/13 00:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		133	ug/L		08/03/13 09:25	08/03/13 22:08	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	75		50 - 150			08/03/13 09:25	08/03/13 22:08	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	86.8		1.00	mg/L			08/03/13 01:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:22	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Iron	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:22	1
Manganese	0.713		0.0150	mg/L		08/01/13 14:00	08/06/13 17:22	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:22	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:22	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3W

Lab Sample ID: 490-32017-6

Date Collected: 07/30/13 12:25

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 02:22	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 02:22	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 02:22	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 02:22	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 02:22	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 02:22	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 02:22	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 02:22	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 02:22	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 02:22	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 02:22	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 02:22	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 02:22	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 02:22	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 02:22	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 02:22	1
2-Hexanone	ND		5.00	ug/L			08/07/13 02:22	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 02:22	1
Acetone	67.8		5.00	ug/L			08/07/13 02:22	1
Benzene	ND		1.00	ug/L			08/07/13 02:22	1
Bromobenzene	ND		1.00	ug/L			08/07/13 02:22	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 02:22	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 02:22	1
Bromoform	ND		1.00	ug/L			08/07/13 02:22	1
Bromomethane	ND		1.00	ug/L			08/07/13 02:22	1
Carbon disulfide	1.05		1.00	ug/L			08/07/13 02:22	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 02:22	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 02:22	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 02:22	1
Chloroethane	ND		1.00	ug/L			08/07/13 02:22	1
Chloroform	ND		1.00	ug/L			08/07/13 02:22	1
Chloromethane	2.53		1.00	ug/L			08/07/13 02:22	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 02:22	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 02:22	1
Dibromomethane	ND		1.00	ug/L			08/07/13 02:22	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 02:22	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 02:22	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 02:22	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3W

Lab Sample ID: 490-32017-6

Date Collected: 07/30/13 12:25

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 02:22	1
Naphthalene	ND		5.00	ug/L			08/07/13 02:22	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 02:22	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
Styrene	ND		1.00	ug/L			08/07/13 02:22	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 02:22	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 02:22	1
Toluene	ND		1.00	ug/L			08/07/13 02:22	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 02:22	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 02:22	1
Trichloroethene	ND		1.00	ug/L			08/07/13 02:22	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 02:22	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 02:22	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/07/13 02:22	1
4-Bromofluorobenzene (Surr)	99		70 - 130		08/07/13 02:22	1
Dibromofluoromethane (Surr)	99		70 - 130		08/07/13 02:22	1
Toluene-d8 (Surr)	97		70 - 130		08/07/13 02:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
1-Methylnaphthalene	26.7		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Chloronaphthalene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Chlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Methylnaphthalene	4.92		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
2-Nitrophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
3-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3W

Lab Sample ID: 490-32017-6

Date Collected: 07/30/13 12:25

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
4-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
4-Nitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
Acenaphthylene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Acenaphthene	2.73		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Benzo[a]anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Benzo[a]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Carbazole	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Chrysene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Cresols	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Dibenzofuran	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Diethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Dimethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Fluorene	8.39		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Hexachlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Hexachlorobutadiene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Hexachloroethane	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Isophorone	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Naphthalene	6.39		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Nitrobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Pentachlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 03:45	1
Phenanthrene	14.4		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Phenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 03:45	1
Pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 03:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			08/01/13 18:32	08/05/13 03:45	1
2-Fluorobiphenyl (Surr)	59		29 - 120			08/01/13 18:32	08/05/13 03:45	1
2-Fluorophenol (Surr)	37		10 - 120			08/01/13 18:32	08/05/13 03:45	1
Nitrobenzene-d5 (Surr)	58		27 - 120			08/01/13 18:32	08/05/13 03:45	1
Phenol-d5 (Surr)	27		10 - 120			08/01/13 18:32	08/05/13 03:45	1
Terphenyl-d14 (Surr)	83		13 - 120			08/01/13 18:32	08/05/13 03:45	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3W

Lab Sample ID: 490-32017-6

Date Collected: 07/30/13 12:25

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 01:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	87		50 - 150				08/06/13 01:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	657		111	ug/L		08/03/13 09:25	08/03/13 22:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	73		50 - 150			08/03/13 09:25	08/03/13 22:28	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	12800		200	mg/L			08/07/13 07:32	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Chromium	ND		0.500	mg/L		08/01/13 14:00	08/06/13 17:26	100
Cobalt	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Copper	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Iron	ND		10.0	mg/L		08/01/13 14:00	08/06/13 17:26	100
Lead	ND		0.500	mg/L		08/01/13 14:00	08/06/13 17:26	100
Manganese	ND		1.50	mg/L		08/01/13 14:00	08/06/13 17:26	100
Nickel	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Selenium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Thallium	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:26	100
Vanadium	ND		2.00	mg/L		08/01/13 14:00	08/06/13 17:26	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5S

Lab Sample ID: 490-32017-7

Date Collected: 07/30/13 12:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 02:48	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 02:48	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 02:48	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 02:48	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 02:48	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 02:48	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 02:48	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 02:48	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 02:48	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 02:48	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 02:48	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 02:48	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 02:48	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 02:48	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 02:48	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 02:48	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 02:48	1
2-Hexanone	ND		5.00	ug/L			08/07/13 02:48	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 02:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 02:48	1
Acetone	37.4		5.00	ug/L			08/07/13 02:48	1
Benzene	ND		1.00	ug/L			08/07/13 02:48	1
Bromobenzene	ND		1.00	ug/L			08/07/13 02:48	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 02:48	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 02:48	1
Bromoform	ND		1.00	ug/L			08/07/13 02:48	1
Bromomethane	2.40		1.00	ug/L			08/07/13 02:48	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 02:48	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 02:48	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 02:48	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 02:48	1
Chloroethane	ND		1.00	ug/L			08/07/13 02:48	1
Chloroform	ND		1.00	ug/L			08/07/13 02:48	1
Chloromethane	3.50		1.00	ug/L			08/07/13 02:48	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 02:48	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 02:48	1
Dibromomethane	ND		1.00	ug/L			08/07/13 02:48	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 02:48	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 02:48	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 02:48	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5S

Lab Sample ID: 490-32017-7

Date Collected: 07/30/13 12:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 02:48	1
Naphthalene	12.8		5.00	ug/L			08/07/13 02:48	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 02:48	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
Styrene	ND		1.00	ug/L			08/07/13 02:48	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 02:48	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 02:48	1
Toluene	ND		1.00	ug/L			08/07/13 02:48	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 02:48	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 02:48	1
Trichloroethene	ND		1.00	ug/L			08/07/13 02:48	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 02:48	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 02:48	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/07/13 02:48	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 02:48	1
Dibromofluoromethane (Surr)	98		70 - 130		08/07/13 02:48	1
Toluene-d8 (Surr)	97		70 - 130		08/07/13 02:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
1-Methylnaphthalene	17.1		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Chloronaphthalene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Chlorophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Methylnaphthalene	15.2		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
2-Nitrophenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
3-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5S

Lab Sample ID: 490-32017-7

Date Collected: 07/30/13 12:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
4-Nitroaniline	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
4-Nitrophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
Acenaphthylene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Acenaphthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Benzo[a]anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Benzo[a]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Carbazole	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Chrysene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Cresols	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Dibenzofuran	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Diethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Dimethyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Fluoranthene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Fluorene	2.44		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Hexachlorobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Hexachlorobutadiene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Hexachloroethane	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Isophorone	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Naphthalene	13.6		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Nitrobenzene	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Pentachlorophenol	ND		27.8	ug/L		08/01/13 18:32	08/05/13 04:08	1
Phenanthrene	6.15		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Phenol	ND		11.1	ug/L		08/01/13 18:32	08/05/13 04:08	1
Pyrene	ND		2.22	ug/L		08/01/13 18:32	08/05/13 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		10 - 120			08/01/13 18:32	08/05/13 04:08	1
2-Fluorobiphenyl (Surr)	61		29 - 120			08/01/13 18:32	08/05/13 04:08	1
2-Fluorophenol (Surr)	37		10 - 120			08/01/13 18:32	08/05/13 04:08	1
Nitrobenzene-d5 (Surr)	60		27 - 120			08/01/13 18:32	08/05/13 04:08	1
Phenol-d5 (Surr)	25		10 - 120			08/01/13 18:32	08/05/13 04:08	1
Terphenyl-d14 (Surr)	81		13 - 120			08/01/13 18:32	08/05/13 04:08	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5S

Lab Sample ID: 490-32017-7

Date Collected: 07/30/13 12:50

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 01:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	88		50 - 150				08/06/13 01:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	304		143	ug/L		08/03/13 09:25	08/03/13 22:47	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	62		50 - 150			08/03/13 09:25	08/03/13 22:47	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	730		20.0	mg/L			08/03/13 22:23	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Chromium	0.0820		0.0500	mg/L		08/01/13 14:00	08/06/13 17:29	10
Cobalt	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Copper	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Iron	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:29	10
Lead	ND		0.0500	mg/L		08/01/13 14:00	08/06/13 17:29	10
Manganese	ND		0.150	mg/L		08/01/13 14:00	08/06/13 17:29	10
Nickel	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Selenium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Thallium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:29	10
Vanadium	0.231		0.200	mg/L		08/01/13 14:00	08/06/13 17:29	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3S
Date Collected: 07/30/13 13:35
Date Received: 07/31/13 08:30

Lab Sample ID: 490-32017-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 03:16	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 03:16	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 03:16	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 03:16	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 03:16	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 03:16	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 03:16	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 03:16	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 03:16	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 03:16	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 03:16	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 03:16	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 03:16	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 03:16	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 03:16	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 03:16	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 03:16	1
2-Hexanone	ND		5.00	ug/L			08/07/13 03:16	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 03:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 03:16	1
Acetone	7.86		5.00	ug/L			08/07/13 03:16	1
Benzene	ND		1.00	ug/L			08/07/13 03:16	1
Bromobenzene	ND		1.00	ug/L			08/07/13 03:16	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 03:16	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 03:16	1
Bromoform	ND		1.00	ug/L			08/07/13 03:16	1
Bromomethane	ND		1.00	ug/L			08/07/13 03:16	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 03:16	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 03:16	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 03:16	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 03:16	1
Chloroethane	ND		1.00	ug/L			08/07/13 03:16	1
Chloroform	ND		1.00	ug/L			08/07/13 03:16	1
Chloromethane	ND		1.00	ug/L			08/07/13 03:16	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 03:16	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 03:16	1
Dibromomethane	ND		1.00	ug/L			08/07/13 03:16	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 03:16	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 03:16	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 03:16	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3S

Lab Sample ID: 490-32017-8

Date Collected: 07/30/13 13:35

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 03:16	1
Naphthalene	ND		5.00	ug/L			08/07/13 03:16	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 03:16	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
Styrene	ND		1.00	ug/L			08/07/13 03:16	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 03:16	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 03:16	1
Toluene	ND		1.00	ug/L			08/07/13 03:16	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 03:16	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 03:16	1
Trichloroethene	ND		1.00	ug/L			08/07/13 03:16	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 03:16	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 03:16	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		08/07/13 03:16	1
4-Bromofluorobenzene (Surr)	99		70 - 130		08/07/13 03:16	1
Dibromofluoromethane (Surr)	100		70 - 130		08/07/13 03:16	1
Toluene-d8 (Surr)	98		70 - 130		08/07/13 03:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
1,2-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
1,3-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
1,4-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
1-Methylnaphthalene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4,5-Trichlorophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4-Dichlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4-Dimethylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4-Dinitrophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,4-Dinitrotoluene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2,6-Dinitrotoluene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Chloronaphthalene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Chlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Methylnaphthalene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
2-Nitrophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
3 & 4 Methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
3-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3S

Lab Sample ID: 490-32017-8

Date Collected: 07/30/13 13:35

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
4-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
4-Nitrophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
Acenaphthylene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Acenaphthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Benzo[a]anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Benzo[a]pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Benzo[b]fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Benzo[k]fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Bis(2-ethylhexyl) phthalate	103	B *	10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Butyl benzyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Carbazole	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Chrysene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Cresols	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Dibenzofuran	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Diethyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Dimethyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Di-n-butyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Di-n-octyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Fluorene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Hexachlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Hexachlorobutadiene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Hexachloroethane	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Isophorone	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Naphthalene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Nitrobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Pentachlorophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 14:25	1
Phenanthrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Phenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 14:25	1
Pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		10 - 120			08/03/13 13:14	08/05/13 14:25	1
2-Fluorobiphenyl (Surr)	66		29 - 120			08/03/13 13:14	08/05/13 14:25	1
2-Fluorophenol (Surr)	36		10 - 120			08/03/13 13:14	08/05/13 14:25	1
Nitrobenzene-d5 (Surr)	59		27 - 120			08/03/13 13:14	08/05/13 14:25	1
Phenol-d5 (Surr)	23		10 - 120			08/03/13 13:14	08/05/13 14:25	1
Terphenyl-d14 (Surr)	62		13 - 120			08/03/13 13:14	08/05/13 14:25	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR3S

Lab Sample ID: 490-32017-8

Date Collected: 07/30/13 13:35

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 02:28	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	87		50 - 150				08/06/13 02:28	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	598		125	ug/L		08/03/13 09:25	08/03/13 23:07	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	98		50 - 150			08/03/13 09:25	08/03/13 23:07	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1290		20.0	mg/L			08/03/13 22:42	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Chromium	ND		0.0500	mg/L		08/01/13 14:00	08/06/13 17:33	10
Cobalt	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Copper	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Iron	ND		1.00	mg/L		08/01/13 14:00	08/06/13 17:33	10
Lead	ND		0.0500	mg/L		08/01/13 14:00	08/06/13 17:33	10
Manganese	0.895		0.150	mg/L		08/01/13 14:00	08/06/13 17:33	10
Nickel	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Selenium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Thallium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:33	10
Vanadium	ND		0.200	mg/L		08/01/13 14:00	08/06/13 17:33	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10S

Lab Sample ID: 490-32017-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 03:42	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 03:42	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 03:42	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 03:42	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 03:42	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 03:42	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 03:42	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 03:42	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 03:42	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
1,2,4-Trimethylbenzene	22.0		1.00	ug/L			08/07/13 03:42	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 03:42	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 03:42	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 03:42	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 03:42	1
1,3,5-Trimethylbenzene	2.40		1.00	ug/L			08/07/13 03:42	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 03:42	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 03:42	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 03:42	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 03:42	1
2-Hexanone	ND		5.00	ug/L			08/07/13 03:42	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 03:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 03:42	1
Acetone	28.8		5.00	ug/L			08/07/13 03:42	1
Benzene	1.48		1.00	ug/L			08/07/13 03:42	1
Bromobenzene	ND		1.00	ug/L			08/07/13 03:42	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 03:42	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 03:42	1
Bromoform	ND		1.00	ug/L			08/07/13 03:42	1
Bromomethane	ND		1.00	ug/L			08/07/13 03:42	1
Carbon disulfide	1.63		1.00	ug/L			08/07/13 03:42	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 03:42	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 03:42	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 03:42	1
Chloroethane	ND		1.00	ug/L			08/07/13 03:42	1
Chloroform	ND		1.00	ug/L			08/07/13 03:42	1
Chloromethane	2.61		1.00	ug/L			08/07/13 03:42	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 03:42	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 03:42	1
Dibromomethane	ND		1.00	ug/L			08/07/13 03:42	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 03:42	1
Ethylbenzene	6.39		1.00	ug/L			08/07/13 03:42	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 03:42	1
Isopropylbenzene	3.27		1.00	ug/L			08/07/13 03:42	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 03:42	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10S

Lab Sample ID: 490-32017-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 03:42	1
Naphthalene	263		50.0	ug/L			08/07/13 21:59	10
n-Butylbenzene	ND		1.00	ug/L			08/07/13 03:42	1
N-Propylbenzene	1.85		1.00	ug/L			08/07/13 03:42	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 03:42	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 03:42	1
Styrene	ND		1.00	ug/L			08/07/13 03:42	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 03:42	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 03:42	1
Toluene	ND		1.00	ug/L			08/07/13 03:42	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 03:42	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 03:42	1
Trichloroethene	ND		1.00	ug/L			08/07/13 03:42	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 03:42	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 03:42	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		08/07/13 03:42	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/07/13 21:59	10
4-Bromofluorobenzene (Surr)	97		70 - 130		08/07/13 03:42	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 21:59	10
Dibromofluoromethane (Surr)	101		70 - 130		08/07/13 03:42	1
Dibromofluoromethane (Surr)	101		70 - 130		08/07/13 21:59	10
Toluene-d8 (Surr)	97		70 - 130		08/07/13 03:42	1
Toluene-d8 (Surr)	98		70 - 130		08/07/13 21:59	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
1-Methylnaphthalene	160		11.1	ug/L		08/03/13 13:14	08/06/13 14:14	5
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2-Chloronaphthalene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2-Chlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2-Methylnaphthalene	134		11.1	ug/L		08/03/13 13:14	08/06/13 14:14	5
2-Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
2-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
2-Nitrophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
3-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10S

Lab Sample ID: 490-32017-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Chloroaniline	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
4-Nitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
Acenaphthylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Acenaphthene	41.7		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Benzo[a]anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Benzo[a]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Bis(2-ethylhexyl) phthalate	47.1	B *	11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Carbazole	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Chrysene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Cresols	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Dibenzofuran	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Diethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Dimethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Fluoranthene	2.35		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Fluorene	17.3		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Hexachlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Hexachlorobutadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Hexachloroethane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Isophorone	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Naphthalene	187		11.1	ug/L		08/03/13 13:14	08/06/13 14:14	5
Nitrobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Pentachlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 14:48	1
Phenanthrene	26.6		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Phenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 14:48	1
Pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 120			08/03/13 13:14	08/05/13 14:48	1
2-Fluorobiphenyl (Surr)	73		29 - 120			08/03/13 13:14	08/05/13 14:48	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10S

Lab Sample ID: 490-32017-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	40		10 - 120	08/03/13 13:14	08/05/13 14:48	1
Nitrobenzene-d5 (Surr)	66		27 - 120	08/03/13 13:14	08/05/13 14:48	1
Phenol-d5 (Surr)	27		10 - 120	08/03/13 13:14	08/05/13 14:48	1
Terphenyl-d14 (Surr)	75		13 - 120	08/03/13 13:14	08/05/13 14:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	105		100	ug/L			08/06/13 02:58	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	90		50 - 150		08/06/13 02:58	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1170		133	ug/L		08/03/13 09:25	08/03/13 23:27	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	100		50 - 150		08/03/13 09:25	08/03/13 23:27	1	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	579		10.0	mg/L			08/03/13 23:01	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:37	1
Cobalt	0.0294		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Iron	0.308		0.100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:37	1
Manganese	1.71		0.0150	mg/L		08/01/13 14:00	08/06/13 17:37	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:37	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-32017-10

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/06/13 23:40	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/06/13 23:40	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/06/13 23:40	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/06/13 23:40	1
1,1-Dichloroethane	ND		1.00	ug/L			08/06/13 23:40	1
Diisopropyl ether	ND		2.00	ug/L			08/06/13 23:40	1
1,1-Dichloroethene	ND		1.00	ug/L			08/06/13 23:40	1
1,1-Dichloropropene	ND		1.00	ug/L			08/06/13 23:40	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/06/13 23:40	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/06/13 23:40	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/06/13 23:40	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,2-Dichloroethane	ND		1.00	ug/L			08/06/13 23:40	1
1,2-Dichloropropane	ND		1.00	ug/L			08/06/13 23:40	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
1,3-Dichloropropane	ND		1.00	ug/L			08/06/13 23:40	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
2,2-Dichloropropane	ND		1.00	ug/L			08/06/13 23:40	1
2-Butanone (MEK)	ND		50.0	ug/L			08/06/13 23:40	1
2-Chlorotoluene	ND		1.00	ug/L			08/06/13 23:40	1
2-Hexanone	ND		5.00	ug/L			08/06/13 23:40	1
4-Chlorotoluene	ND		1.00	ug/L			08/06/13 23:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/06/13 23:40	1
Acetone	ND		5.00	ug/L			08/06/13 23:40	1
Benzene	ND		1.00	ug/L			08/06/13 23:40	1
Bromobenzene	ND		1.00	ug/L			08/06/13 23:40	1
Bromochloromethane	ND		1.00	ug/L			08/06/13 23:40	1
Bromodichloromethane	ND		1.00	ug/L			08/06/13 23:40	1
Bromoform	ND		1.00	ug/L			08/06/13 23:40	1
Bromomethane	ND		1.00	ug/L			08/06/13 23:40	1
Carbon disulfide	ND		1.00	ug/L			08/06/13 23:40	1
Carbon tetrachloride	ND		1.00	ug/L			08/06/13 23:40	1
Chlorobenzene	ND		1.00	ug/L			08/06/13 23:40	1
Chlorodibromomethane	ND		1.00	ug/L			08/06/13 23:40	1
Chloroethane	ND		1.00	ug/L			08/06/13 23:40	1
Chloroform	ND		1.00	ug/L			08/06/13 23:40	1
Chloromethane	ND		1.00	ug/L			08/06/13 23:40	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/06/13 23:40	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/06/13 23:40	1
Dibromomethane	ND		1.00	ug/L			08/06/13 23:40	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/06/13 23:40	1
Ethylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
Hexachlorobutadiene	ND		2.00	ug/L			08/06/13 23:40	1
Isopropylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/06/13 23:40	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-32017-10

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/06/13 23:40	1
Naphthalene	ND		5.00	ug/L			08/06/13 23:40	1
n-Butylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
N-Propylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
p-Isopropyltoluene	ND		1.00	ug/L			08/06/13 23:40	1
sec-Butylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
Styrene	ND		1.00	ug/L			08/06/13 23:40	1
tert-Butylbenzene	ND		1.00	ug/L			08/06/13 23:40	1
Tetrachloroethene	ND		1.00	ug/L			08/06/13 23:40	1
Toluene	ND		1.00	ug/L			08/06/13 23:40	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/06/13 23:40	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/06/13 23:40	1
Trichloroethene	ND		1.00	ug/L			08/06/13 23:40	1
Trichlorofluoromethane	ND		1.00	ug/L			08/06/13 23:40	1
Vinyl chloride	ND		1.00	ug/L			08/06/13 23:40	1
Xylenes, Total	ND		2.00	ug/L			08/06/13 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130				08/06/13 23:40	1
4-Bromofluorobenzene (Surr)	101		70 - 130				08/06/13 23:40	1
Dibromofluoromethane (Surr)	101		70 - 130				08/06/13 23:40	1
Toluene-d8 (Surr)	99		70 - 130				08/06/13 23:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5S

Lab Sample ID: 490-32017-11

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 17:56	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 17:56	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 17:56	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 17:56	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 17:56	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 17:56	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 17:56	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 17:56	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 17:56	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 17:56	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 17:56	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 17:56	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 17:56	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 17:56	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 17:56	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 17:56	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 17:56	1
2-Hexanone	ND		5.00	ug/L			08/07/13 17:56	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 17:56	1
Acetone	ND		5.00	ug/L			08/07/13 17:56	1
Benzene	ND		1.00	ug/L			08/07/13 17:56	1
Bromobenzene	ND		1.00	ug/L			08/07/13 17:56	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 17:56	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 17:56	1
Bromoform	ND		1.00	ug/L			08/07/13 17:56	1
Bromomethane	ND		1.00	ug/L			08/07/13 17:56	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 17:56	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 17:56	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 17:56	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 17:56	1
Chloroethane	ND		1.00	ug/L			08/07/13 17:56	1
Chloroform	ND		1.00	ug/L			08/07/13 17:56	1
Chloromethane	ND		1.00	ug/L			08/07/13 17:56	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 17:56	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 17:56	1
Dibromomethane	ND		1.00	ug/L			08/07/13 17:56	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 17:56	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 17:56	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 17:56	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5S

Lab Sample ID: 490-32017-11

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	6.71		5.00	ug/L			08/07/13 17:56	1
Naphthalene	ND		5.00	ug/L			08/07/13 17:56	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 17:56	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
Styrene	ND		1.00	ug/L			08/07/13 17:56	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 17:56	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 17:56	1
Toluene	ND		1.00	ug/L			08/07/13 17:56	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 17:56	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 17:56	1
Trichloroethene	ND		1.00	ug/L			08/07/13 17:56	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 17:56	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 17:56	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		08/07/13 17:56	1
4-Bromofluorobenzene (Surr)	97		70 - 130		08/07/13 17:56	1
Dibromofluoromethane (Surr)	102		70 - 130		08/07/13 17:56	1
Toluene-d8 (Surr)	99		70 - 130		08/07/13 17:56	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
1,2-Dichlorobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
1,3-Dichlorobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
1,4-Dichlorobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
1-Methylnaphthalene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4,5-Trichlorophenol	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4,6-Trichlorophenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4-Dichlorophenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4-Dimethylphenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4-Dinitrophenol	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,4-Dinitrotoluene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2,6-Dinitrotoluene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Chloronaphthalene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Chlorophenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Methylnaphthalene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Methylphenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Nitroaniline	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
2-Nitrophenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
3,3'-Dichlorobenzidine	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
3 & 4 Methylphenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
3-Nitroaniline	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4,6-Dinitro-2-methylphenol	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4-Bromophenyl phenyl ether	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4-Chloro-3-methylphenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4-Chlorophenyl phenyl ether	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5S

Lab Sample ID: 490-32017-11

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4-Nitroaniline	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
4-Nitrophenol	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Acenaphthylene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Acenaphthene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Benzo[a]anthracene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Benzo[a]pyrene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Benzo[b]fluoranthene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Benzo[g,h,i]perylene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Benzo[k]fluoranthene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Anthracene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Bis(2-chloroethoxy)methane	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Bis(2-chloroethyl)ether	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Bis(2-ethylhexyl) phthalate	659	B *	114	ug/L		08/03/13 13:14	08/06/13 14:37	10
bis (2-chloroisopropyl) ether	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Butyl benzyl phthalate	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Carbazole	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Chrysene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Cresols	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Dibenz(a,h)anthracene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Dibenzofuran	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Diethyl phthalate	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Dimethyl phthalate	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Di-n-butyl phthalate	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Di-n-octyl phthalate	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Fluoranthene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Fluorene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Hexachlorobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Hexachlorobutadiene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Hexachlorocyclopentadiene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Hexachloroethane	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Indeno[1,2,3-cd]pyrene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Isophorone	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Naphthalene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Nitrobenzene	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
N-Nitrosodi-n-propylamine	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Pentachlorophenol	ND		28.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Phenanthrene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Phenol	ND		11.4	ug/L		08/03/13 13:14	08/05/13 15:10	1
Pyrene	ND		2.27	ug/L		08/03/13 13:14	08/05/13 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		10 - 120			08/03/13 13:14	08/05/13 15:10	1
2-Fluorobiphenyl (Surr)	69		29 - 120			08/03/13 13:14	08/05/13 15:10	1
2-Fluorophenol (Surr)	43		10 - 120			08/03/13 13:14	08/05/13 15:10	1
Nitrobenzene-d5 (Surr)	62		27 - 120			08/03/13 13:14	08/05/13 15:10	1
Phenol-d5 (Surr)	31		10 - 120			08/03/13 13:14	08/05/13 15:10	1
Terphenyl-d14 (Surr)	63		13 - 120			08/03/13 13:14	08/05/13 15:10	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5S

Lab Sample ID: 490-32017-11

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 03:29	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>89</i>		<i>50 - 150</i>				<i>08/06/13 03:29</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	423		101	ug/L		08/03/13 09:25	08/03/13 23:46	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>80</i>		<i>50 - 150</i>			<i>08/03/13 09:25</i>	<i>08/03/13 23:46</i>	<i>1</i>

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	165		5.00	mg/L			08/03/13 23:20	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:41	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Iron	0.129		0.100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:41	1
Manganese	0.678		0.0150	mg/L		08/01/13 14:00	08/06/13 17:41	1
Nickel	0.0102		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:41	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:41	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS15S

Lab Sample ID: 490-32017-12

Date Collected: 07/30/13 14:40

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 04:36	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 04:36	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 04:36	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 04:36	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 04:36	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 04:36	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 04:36	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 04:36	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 04:36	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 04:36	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 04:36	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 04:36	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 04:36	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 04:36	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 04:36	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 04:36	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 04:36	1
2-Hexanone	ND		5.00	ug/L			08/07/13 04:36	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 04:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 04:36	1
Acetone	ND		5.00	ug/L			08/07/13 04:36	1
Benzene	ND		1.00	ug/L			08/07/13 04:36	1
Bromobenzene	ND		1.00	ug/L			08/07/13 04:36	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 04:36	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 04:36	1
Bromoform	ND		1.00	ug/L			08/07/13 04:36	1
Bromomethane	ND		1.00	ug/L			08/07/13 04:36	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 04:36	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 04:36	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 04:36	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 04:36	1
Chloroethane	ND		1.00	ug/L			08/07/13 04:36	1
Chloroform	ND		1.00	ug/L			08/07/13 04:36	1
Chloromethane	ND		1.00	ug/L			08/07/13 04:36	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 04:36	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 04:36	1
Dibromomethane	ND		1.00	ug/L			08/07/13 04:36	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 04:36	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 04:36	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 04:36	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS15S

Lab Sample ID: 490-32017-12

Date Collected: 07/30/13 14:40

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 04:36	1
Naphthalene	ND		5.00	ug/L			08/07/13 04:36	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 04:36	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
Styrene	ND		1.00	ug/L			08/07/13 04:36	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 04:36	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 04:36	1
Toluene	ND		1.00	ug/L			08/07/13 04:36	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 04:36	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 04:36	1
Trichloroethene	ND		1.00	ug/L			08/07/13 04:36	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 04:36	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 04:36	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		08/07/13 04:36	1
4-Bromofluorobenzene (Surr)	101		70 - 130		08/07/13 04:36	1
Dibromofluoromethane (Surr)	100		70 - 130		08/07/13 04:36	1
Toluene-d8 (Surr)	100		70 - 130		08/07/13 04:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
1-Methylnaphthalene	4.32		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Chloronaphthalene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Chlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Methylnaphthalene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
2-Nitrophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
3-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS15S

Lab Sample ID: 490-32017-12

Date Collected: 07/30/13 14:40

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
4-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
4-Nitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
Acenaphthylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Acenaphthene	3.07		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Benzo[a]anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Benzo[a]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Bis(2-ethylhexyl) phthalate	125	B *	55.6	ug/L		08/03/13 13:14	08/06/13 15:00	5
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Carbazole	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Chrysene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Cresols	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Dibenzofuran	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Diethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Dimethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Fluorene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Hexachlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Hexachlorobutadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Hexachloroethane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Isophorone	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Naphthalene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Nitrobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Pentachlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:33	1
Phenanthrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Phenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:33	1
Pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		10 - 120			08/03/13 13:14	08/05/13 15:33	1
2-Fluorobiphenyl (Surr)	66		29 - 120			08/03/13 13:14	08/05/13 15:33	1
2-Fluorophenol (Surr)	40		10 - 120			08/03/13 13:14	08/05/13 15:33	1
Nitrobenzene-d5 (Surr)	62		27 - 120			08/03/13 13:14	08/05/13 15:33	1
Phenol-d5 (Surr)	28		10 - 120			08/03/13 13:14	08/05/13 15:33	1
Terphenyl-d14 (Surr)	70		13 - 120			08/03/13 13:14	08/05/13 15:33	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS15S

Lab Sample ID: 490-32017-12

Date Collected: 07/30/13 14:40

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/06/13 03:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	87		50 - 150				08/06/13 03:59	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	116		111	ug/L		08/03/13 09:25	08/04/13 00:05	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	80		50 - 150			08/03/13 09:25	08/04/13 00:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	159		5.00	mg/L			08/03/13 23:40	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:44	1
Cobalt	0.0101		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Iron	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:44	1
Manganese	2.37		0.0150	mg/L		08/01/13 14:00	08/06/13 17:44	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:44	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:44	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 05:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 05:03	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 05:03	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 05:03	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 05:03	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 05:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 05:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
1,2,4-Trimethylbenzene	105		1.00	ug/L			08/07/13 05:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 05:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 05:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 05:03	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:03	1
1,3,5-Trimethylbenzene	39.8		1.00	ug/L			08/07/13 05:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 05:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:03	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 05:03	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:03	1
2-Hexanone	ND		5.00	ug/L			08/07/13 05:03	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 05:03	1
Acetone	10.0		5.00	ug/L			08/07/13 05:03	1
Benzene	557		50.0	ug/L			08/07/13 22:26	50
Bromobenzene	ND		1.00	ug/L			08/07/13 05:03	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 05:03	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 05:03	1
Bromoform	ND		1.00	ug/L			08/07/13 05:03	1
Bromomethane	ND		1.00	ug/L			08/07/13 05:03	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 05:03	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 05:03	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 05:03	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 05:03	1
Chloroethane	ND		1.00	ug/L			08/07/13 05:03	1
Chloroform	ND		1.00	ug/L			08/07/13 05:03	1
Chloromethane	ND		1.00	ug/L			08/07/13 05:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:03	1
Dibromomethane	ND		1.00	ug/L			08/07/13 05:03	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 05:03	1
Ethylbenzene	124		1.00	ug/L			08/07/13 05:03	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 05:03	1
Isopropylbenzene	7.88		1.00	ug/L			08/07/13 05:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 05:03	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 05:03	1
Naphthalene	2400		250	ug/L			08/07/13 22:26	50
n-Butylbenzene	ND		1.00	ug/L			08/07/13 05:03	1
N-Propylbenzene	3.12		1.00	ug/L			08/07/13 05:03	1
p-Isopropyltoluene	2.22		1.00	ug/L			08/07/13 05:03	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 05:03	1
Styrene	51.6		1.00	ug/L			08/07/13 05:03	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 05:03	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 05:03	1
Toluene	155		1.00	ug/L			08/07/13 05:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:03	1
Trichloroethene	ND		1.00	ug/L			08/07/13 05:03	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 05:03	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 05:03	1
Xylenes, Total	259		2.00	ug/L			08/07/13 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/07/13 05:03	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		08/07/13 22:26	50
4-Bromofluorobenzene (Surr)	92		70 - 130		08/07/13 05:03	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 22:26	50
Dibromofluoromethane (Surr)	103		70 - 130		08/07/13 05:03	1
Dibromofluoromethane (Surr)	101		70 - 130		08/07/13 22:26	50
Toluene-d8 (Surr)	97		70 - 130		08/07/13 05:03	1
Toluene-d8 (Surr)	100		70 - 130		08/07/13 22:26	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
1-Methylnaphthalene	258		22.2	ug/L		08/03/13 13:14	08/06/13 15:22	10
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2-Chloronaphthalene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2-Chlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2-Methylnaphthalene	238		22.2	ug/L		08/03/13 13:14	08/06/13 15:22	10
2-Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
2-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
2-Nitrophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
3-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Chloroaniline	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
4-Nitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
Acenaphthylene	41.3		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Acenaphthene	35.9		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Benzo[a]anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Benzo[a]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Bis(2-ethylhexyl) phthalate	84.3	B *	11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Carbazole	22.6		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Chrysene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Cresols	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Dibenzofuran	12.5		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Diethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Dimethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Fluorene	18.1		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Hexachlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Hexachlorobutadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Hexachloroethane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Isophorone	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Naphthalene	866		22.2	ug/L		08/03/13 13:14	08/06/13 15:22	10
Nitrobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Pentachlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 15:56	1
Phenanthrene	3.78		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Phenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 15:56	1
Pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		10 - 120			08/03/13 13:14	08/05/13 15:56	1
2-Fluorobiphenyl (Surr)	62		29 - 120			08/03/13 13:14	08/05/13 15:56	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	39		10 - 120	08/03/13 13:14	08/05/13 15:56	1
Nitrobenzene-d5 (Surr)	58		27 - 120	08/03/13 13:14	08/05/13 15:56	1
Phenol-d5 (Surr)	25		10 - 120	08/03/13 13:14	08/05/13 15:56	1
Terphenyl-d14 (Surr)	57		13 - 120	08/03/13 13:14	08/05/13 15:56	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	4730		100	ug/L			08/07/13 21:20	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	105		50 - 150		08/07/13 21:20	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5590		1000	ug/L		08/03/13 09:25	08/05/13 21:20	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	73		50 - 150		08/03/13 09:25	08/05/13 21:20	10	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	528		10.0	mg/L			08/03/13 23:59	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:48	1
Cobalt	0.0138		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Iron	8.91		0.100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Lead	0.00660		0.00500	mg/L		08/01/13 14:00	08/06/13 17:48	1
Manganese	3.19		0.0150	mg/L		08/01/13 14:00	08/06/13 17:48	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:48	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Dup-1
Date Collected: 07/30/13 00:01
Date Received: 07/31/13 08:30

Lab Sample ID: 490-32017-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 05:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 05:30	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 05:30	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 05:30	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 05:30	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 05:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 05:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
1,2,4-Trimethylbenzene	103		1.00	ug/L			08/07/13 05:30	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 05:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 05:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 05:30	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:30	1
1,3,5-Trimethylbenzene	40.2		1.00	ug/L			08/07/13 05:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 05:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:30	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 05:30	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:30	1
2-Hexanone	ND		5.00	ug/L			08/07/13 05:30	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 05:30	1
Acetone	6.29		5.00	ug/L			08/07/13 05:30	1
Benzene	558		50.0	ug/L			08/08/13 02:02	50
Bromobenzene	ND		1.00	ug/L			08/07/13 05:30	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 05:30	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 05:30	1
Bromoform	ND		1.00	ug/L			08/07/13 05:30	1
Bromomethane	ND		1.00	ug/L			08/07/13 05:30	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 05:30	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 05:30	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 05:30	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 05:30	1
Chloroethane	ND		1.00	ug/L			08/07/13 05:30	1
Chloroform	ND		1.00	ug/L			08/07/13 05:30	1
Chloromethane	ND		1.00	ug/L			08/07/13 05:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:30	1
Dibromomethane	ND		1.00	ug/L			08/07/13 05:30	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 05:30	1
Ethylbenzene	108		1.00	ug/L			08/07/13 05:30	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 05:30	1
Isopropylbenzene	7.93		1.00	ug/L			08/07/13 05:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 05:30	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Dup-1

Lab Sample ID: 490-32017-14

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 05:30	1
Naphthalene	2170		250	ug/L			08/08/13 02:02	50
n-Butylbenzene	ND		1.00	ug/L			08/07/13 05:30	1
N-Propylbenzene	3.10		1.00	ug/L			08/07/13 05:30	1
p-Isopropyltoluene	2.28		1.00	ug/L			08/07/13 05:30	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 05:30	1
Styrene	47.5		1.00	ug/L			08/07/13 05:30	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 05:30	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 05:30	1
Toluene	140		1.00	ug/L			08/07/13 05:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:30	1
Trichloroethene	ND		1.00	ug/L			08/07/13 05:30	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 05:30	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 05:30	1
Xylenes, Total	235		2.00	ug/L			08/07/13 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		08/07/13 05:30	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		08/08/13 02:02	50
4-Bromofluorobenzene (Surr)	104		70 - 130		08/07/13 05:30	1
4-Bromofluorobenzene (Surr)	95		70 - 130		08/08/13 02:02	50
Dibromofluoromethane (Surr)	94		70 - 130		08/07/13 05:30	1
Dibromofluoromethane (Surr)	100		70 - 130		08/08/13 02:02	50
Toluene-d8 (Surr)	102		70 - 130		08/07/13 05:30	1
Toluene-d8 (Surr)	98		70 - 130		08/08/13 02:02	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
1,2-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
1,3-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
1,4-Dichlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
1-Methylnaphthalene	345		21.1	ug/L		08/03/13 13:14	08/06/13 15:45	10
2,4,5-Trichlorophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,4,6-Trichlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,4-Dichlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,4-Dimethylphenol	12.7		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,4-Dinitrophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,4-Dinitrotoluene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2,6-Dinitrotoluene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2-Chloronaphthalene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2-Chlorophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2-Methylnaphthalene	328		21.1	ug/L		08/03/13 13:14	08/06/13 15:45	10
2-Methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
2-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
2-Nitrophenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
3,3'-Dichlorobenzidine	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
3 & 4 Methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
3-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Dup-1

Lab Sample ID: 490-32017-14

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Bromophenyl phenyl ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Chloro-3-methylphenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Chlorophenyl phenyl ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Chloroaniline	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Nitroaniline	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
4-Nitrophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
Acenaphthylene	47.0		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Acenaphthene	39.1		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Benzo[a]anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Benzo[a]pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Benzo[b]fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Benzo[k]fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Bis(2-chloroethoxy)methane	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Bis(2-chloroethyl)ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Bis(2-ethylhexyl) phthalate	ND *		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
bis (2-chloroisopropyl) ether	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Butyl benzyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Carbazole	24.0		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Chrysene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Cresols	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Dibenzofuran	13.5		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Diethyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Dimethyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Di-n-butyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Di-n-octyl phthalate	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Fluoranthene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Fluorene	20.0		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Hexachlorobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Hexachlorobutadiene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Hexachlorocyclopentadiene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Hexachloroethane	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Isophorone	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Naphthalene	1990		105	ug/L		08/03/13 13:14	08/07/13 10:41	50
Nitrobenzene	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
N-Nitrosodi-n-propylamine	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Pentachlorophenol	ND		26.3	ug/L		08/03/13 13:14	08/05/13 16:18	1
Phenanthrene	4.17		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Phenol	ND		10.5	ug/L		08/03/13 13:14	08/05/13 16:18	1
Pyrene	ND		2.11	ug/L		08/03/13 13:14	08/05/13 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		10 - 120			08/03/13 13:14	08/05/13 16:18	1
2-Fluorobiphenyl (Surr)	67		29 - 120			08/03/13 13:14	08/05/13 16:18	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Dup-1

Lab Sample ID: 490-32017-14

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	40		10 - 120	08/03/13 13:14	08/05/13 16:18	1
Nitrobenzene-d5 (Surr)	60		27 - 120	08/03/13 13:14	08/05/13 16:18	1
Phenol-d5 (Surr)	25		10 - 120	08/03/13 13:14	08/05/13 16:18	1
Terphenyl-d14 (Surr)	57		13 - 120	08/03/13 13:14	08/05/13 16:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	4770		100	ug/L			08/07/13 21:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	99		50 - 150		08/07/13 21:53	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6240		1110	ug/L		08/03/13 09:25	08/05/13 21:39	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	81		50 - 150		08/03/13 09:25	08/05/13 21:39	10	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	555		10.0	mg/L			08/06/13 19:09	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 17:52	1
Cobalt	0.0141		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Copper	0.0108		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Iron	17.5		0.100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Lead	0.00850		0.00500	mg/L		08/01/13 14:00	08/06/13 17:52	1
Manganese	3.22		0.0150	mg/L		08/01/13 14:00	08/06/13 17:52	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 17:52	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 17:52	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:57	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 05:57	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 05:57	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 05:57	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 05:57	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 05:57	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 05:57	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 05:57	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 05:57	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
1,2,4-Trimethylbenzene	18.2		1.00	ug/L			08/07/13 05:57	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 05:57	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 05:57	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 05:57	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:57	1
1,3,5-Trimethylbenzene	2.33		1.00	ug/L			08/07/13 05:57	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 05:57	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 05:57	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 05:57	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:57	1
2-Hexanone	ND		5.00	ug/L			08/07/13 05:57	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 05:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 05:57	1
Acetone	202		5.00	ug/L			08/07/13 05:57	1
Benzene	5.51		1.00	ug/L			08/07/13 05:57	1
Bromobenzene	ND		1.00	ug/L			08/07/13 05:57	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 05:57	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 05:57	1
Bromoform	ND		1.00	ug/L			08/07/13 05:57	1
Bromomethane	4.10		1.00	ug/L			08/07/13 05:57	1
Carbon disulfide	17.5		1.00	ug/L			08/07/13 05:57	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 05:57	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 05:57	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 05:57	1
Chloroethane	ND		1.00	ug/L			08/07/13 05:57	1
Chloroform	ND		1.00	ug/L			08/07/13 05:57	1
Chloromethane	6.64		1.00	ug/L			08/07/13 05:57	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:57	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:57	1
Dibromomethane	ND		1.00	ug/L			08/07/13 05:57	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 05:57	1
Ethylbenzene	11.5		1.00	ug/L			08/07/13 05:57	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 05:57	1
Isopropylbenzene	4.12		1.00	ug/L			08/07/13 05:57	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 05:57	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 05:57	1
Naphthalene	1780		250	ug/L			08/08/13 02:29	50
n-Butylbenzene	ND		1.00	ug/L			08/07/13 05:57	1
N-Propylbenzene	1.57		1.00	ug/L			08/07/13 05:57	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 05:57	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 05:57	1
Styrene	ND		1.00	ug/L			08/07/13 05:57	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 05:57	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 05:57	1
Toluene	ND		1.00	ug/L			08/07/13 05:57	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 05:57	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 05:57	1
Trichloroethene	ND		1.00	ug/L			08/07/13 05:57	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 05:57	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 05:57	1
Xylenes, Total	11.1		2.00	ug/L			08/07/13 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/07/13 05:57	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		08/08/13 02:29	50
4-Bromofluorobenzene (Surr)	103		70 - 130		08/07/13 05:57	1
4-Bromofluorobenzene (Surr)	101		70 - 130		08/08/13 02:29	50
Dibromofluoromethane (Surr)	94		70 - 130		08/07/13 05:57	1
Dibromofluoromethane (Surr)	102		70 - 130		08/08/13 02:29	50
Toluene-d8 (Surr)	100		70 - 130		08/07/13 05:57	1
Toluene-d8 (Surr)	99		70 - 130		08/08/13 02:29	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
1-Methylnaphthalene	342		22.2	ug/L		08/03/13 13:14	08/06/13 16:08	10
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2-Chloronaphthalene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2-Chlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2-Methylnaphthalene	430		22.2	ug/L		08/03/13 13:14	08/06/13 16:08	10
2-Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
2-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
2-Nitrophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
3-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Chloroaniline	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
4-Nitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
Acenaphthylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Acenaphthene	34.9		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Benzo[a]anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Benzo[a]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Bis(2-chloroethoxy)methane	13.9		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Bis(2-ethylhexyl) phthalate	17.5	B *	11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Carbazole	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Chrysene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Cresols	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Dibenzofuran	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Diethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Dimethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Fluorene	14.6		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Hexachlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Hexachlorobutadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Hexachloroethane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Isophorone	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Naphthalene	1550		111	ug/L		08/03/13 13:14	08/07/13 11:03	50
Nitrobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Pentachlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 16:41	1
Phenanthrene	14.5		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Phenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 16:41	1
Pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		10 - 120			08/03/13 13:14	08/05/13 16:41	1
2-Fluorobiphenyl (Surr)	66		29 - 120			08/03/13 13:14	08/05/13 16:41	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	41		10 - 120	08/03/13 13:14	08/05/13 16:41	1
Nitrobenzene-d5 (Surr)	58		27 - 120	08/03/13 13:14	08/05/13 16:41	1
Phenol-d5 (Surr)	26		10 - 120	08/03/13 13:14	08/05/13 16:41	1
Terphenyl-d14 (Surr)	63		13 - 120	08/03/13 13:14	08/05/13 16:41	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	194		100	ug/L			08/07/13 22:25	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	101		50 - 150		08/07/13 22:25	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4310		533	ug/L		08/03/13 09:25	08/05/13 21:57	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	76		50 - 150		08/03/13 09:25	08/05/13 21:57	4	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	17700		500	mg/L			08/07/13 07:52	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Chromium	0.121		0.0500	mg/L		08/01/13 14:00	08/06/13 17:55	10
Cobalt	2.10		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Copper	0.310		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Iron	16.4		1.00	mg/L		08/01/13 14:00	08/06/13 17:55	10
Lead	0.0550		0.0500	mg/L		08/01/13 14:00	08/06/13 17:55	10
Manganese	38.3		0.150	mg/L		08/01/13 14:00	08/06/13 17:55	10
Nickel	0.705		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Selenium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Thallium	ND		0.100	mg/L		08/01/13 14:00	08/06/13 17:55	10
Vanadium	ND		0.200	mg/L		08/01/13 14:00	08/06/13 17:55	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13D

Lab Sample ID: 490-32017-16

Date Collected: 07/30/13 16:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 18:23	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 18:23	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 18:23	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 18:23	1
1,1-Dichloroethane	1.19		1.00	ug/L			08/07/13 18:23	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 18:23	1
1,1-Dichloroethene	1.07		1.00	ug/L			08/07/13 18:23	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 18:23	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 18:23	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 18:23	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 18:23	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 18:23	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 18:23	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 18:23	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 18:23	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 18:23	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 18:23	1
2-Hexanone	ND		5.00	ug/L			08/07/13 18:23	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 18:23	1
Acetone	ND		5.00	ug/L			08/07/13 18:23	1
Benzene	ND		1.00	ug/L			08/07/13 18:23	1
Bromobenzene	ND		1.00	ug/L			08/07/13 18:23	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 18:23	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 18:23	1
Bromoform	ND		1.00	ug/L			08/07/13 18:23	1
Bromomethane	ND		1.00	ug/L			08/07/13 18:23	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 18:23	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 18:23	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 18:23	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 18:23	1
Chloroethane	ND		1.00	ug/L			08/07/13 18:23	1
Chloroform	ND		1.00	ug/L			08/07/13 18:23	1
Chloromethane	ND		1.00	ug/L			08/07/13 18:23	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 18:23	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 18:23	1
Dibromomethane	ND		1.00	ug/L			08/07/13 18:23	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 18:23	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 18:23	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 18:23	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13D

Lab Sample ID: 490-32017-16

Date Collected: 07/30/13 16:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			08/07/13 18:23	1
Naphthalene	ND		5.00	ug/L			08/07/13 18:23	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 18:23	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
Styrene	ND		1.00	ug/L			08/07/13 18:23	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 18:23	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 18:23	1
Toluene	ND		1.00	ug/L			08/07/13 18:23	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 18:23	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 18:23	1
Trichloroethene	ND		1.00	ug/L			08/07/13 18:23	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 18:23	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 18:23	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		08/07/13 18:23	1
4-Bromofluorobenzene (Surr)	100		70 - 130		08/07/13 18:23	1
Dibromofluoromethane (Surr)	100		70 - 130		08/07/13 18:23	1
Toluene-d8 (Surr)	99		70 - 130		08/07/13 18:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
1,2-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
1,3-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
1,4-Dichlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
1-Methylnaphthalene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4-Dichlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4-Dimethylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4-Dinitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,4-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2,6-Dinitrotoluene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Chloronaphthalene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Chlorophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Methylnaphthalene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
2-Nitrophenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
3 & 4 Methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
3-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13D

Lab Sample ID: 490-32017-16

Date Collected: 07/30/13 16:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
4-Nitroaniline	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
4-Nitrophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
Acenaphthylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Acenaphthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Benzo[a]anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Benzo[a]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Benzo[b]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Benzo[k]fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Bis(2-ethylhexyl) phthalate	ND	*	11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Butyl benzyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Carbazole	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Chrysene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Cresols	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Dibenzofuran	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Diethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Dimethyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Di-n-butyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Di-n-octyl phthalate	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Fluoranthene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Fluorene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Hexachlorobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Hexachlorobutadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Hexachloroethane	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Isophorone	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Naphthalene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Nitrobenzene	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Pentachlorophenol	ND		27.8	ug/L		08/03/13 13:14	08/05/13 17:03	1
Phenanthrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Phenol	ND		11.1	ug/L		08/03/13 13:14	08/05/13 17:03	1
Pyrene	ND		2.22	ug/L		08/03/13 13:14	08/05/13 17:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		10 - 120			08/03/13 13:14	08/05/13 17:03	1
2-Fluorobiphenyl (Surr)	65		29 - 120			08/03/13 13:14	08/05/13 17:03	1
2-Fluorophenol (Surr)	37		10 - 120			08/03/13 13:14	08/05/13 17:03	1
Nitrobenzene-d5 (Surr)	59		27 - 120			08/03/13 13:14	08/05/13 17:03	1
Phenol-d5 (Surr)	25		10 - 120			08/03/13 13:14	08/05/13 17:03	1
Terphenyl-d14 (Surr)	65		13 - 120			08/03/13 13:14	08/05/13 17:03	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13D

Lab Sample ID: 490-32017-16

Date Collected: 07/30/13 16:15

Matrix: Water

Date Received: 07/31/13 08:30

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/07/13 22:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	96		50 - 150				08/07/13 22:58	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		95.2	ug/L		08/03/13 09:25	08/04/13 01:21	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	75		50 - 150			08/03/13 09:25	08/04/13 01:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	17.4		1.00	mg/L			08/03/13 06:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 18:12	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Iron	ND		0.100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 18:12	1
Manganese	ND		0.0150	mg/L		08/01/13 14:00	08/06/13 18:12	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 18:12	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 18:12	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-98164/4

Matrix: Water

Analysis Batch: 98164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/06/13 23:13	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/06/13 23:13	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/06/13 23:13	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/06/13 23:13	1
1,1-Dichloroethane	ND		1.00	ug/L			08/06/13 23:13	1
Diisopropyl ether	ND		2.00	ug/L			08/06/13 23:13	1
1,1-Dichloroethene	ND		1.00	ug/L			08/06/13 23:13	1
1,1-Dichloropropene	ND		1.00	ug/L			08/06/13 23:13	1
1,2,3-Trichlorobenzene	1.138		1.00	ug/L			08/06/13 23:13	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/06/13 23:13	1
1,2,4-Trichlorobenzene	1.208		1.00	ug/L			08/06/13 23:13	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/06/13 23:13	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/06/13 23:13	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:13	1
1,2-Dichloroethane	ND		1.00	ug/L			08/06/13 23:13	1
1,2-Dichloropropane	ND		1.00	ug/L			08/06/13 23:13	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:13	1
1,3-Dichloropropane	ND		1.00	ug/L			08/06/13 23:13	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/06/13 23:13	1
2,2-Dichloropropane	ND		1.00	ug/L			08/06/13 23:13	1
2-Butanone (MEK)	ND		50.0	ug/L			08/06/13 23:13	1
2-Chlorotoluene	ND		1.00	ug/L			08/06/13 23:13	1
2-Hexanone	ND		5.00	ug/L			08/06/13 23:13	1
4-Chlorotoluene	ND		1.00	ug/L			08/06/13 23:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/06/13 23:13	1
Acetone	ND		5.00	ug/L			08/06/13 23:13	1
Benzene	ND		1.00	ug/L			08/06/13 23:13	1
Bromobenzene	ND		1.00	ug/L			08/06/13 23:13	1
Bromochloromethane	ND		1.00	ug/L			08/06/13 23:13	1
Bromodichloromethane	ND		1.00	ug/L			08/06/13 23:13	1
Bromoform	ND		1.00	ug/L			08/06/13 23:13	1
Bromomethane	ND		1.00	ug/L			08/06/13 23:13	1
Carbon disulfide	ND		1.00	ug/L			08/06/13 23:13	1
Carbon tetrachloride	ND		1.00	ug/L			08/06/13 23:13	1
Chlorobenzene	ND		1.00	ug/L			08/06/13 23:13	1
Chlorodibromomethane	ND		1.00	ug/L			08/06/13 23:13	1
Chloroethane	ND		1.00	ug/L			08/06/13 23:13	1
Chloroform	ND		1.00	ug/L			08/06/13 23:13	1
Chloromethane	ND		1.00	ug/L			08/06/13 23:13	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/06/13 23:13	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/06/13 23:13	1
Dibromomethane	ND		1.00	ug/L			08/06/13 23:13	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/06/13 23:13	1
Ethylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
Hexachlorobutadiene	ND		2.00	ug/L			08/06/13 23:13	1
Isopropylbenzene	ND		1.00	ug/L			08/06/13 23:13	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-98164/4

Matrix: Water

Analysis Batch: 98164

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			08/06/13 23:13	1
Methylene Chloride	ND		5.00	ug/L			08/06/13 23:13	1
Naphthalene	ND		5.00	ug/L			08/06/13 23:13	1
n-Butylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
N-Propylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
p-Isopropyltoluene	ND		1.00	ug/L			08/06/13 23:13	1
sec-Butylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
Styrene	ND		1.00	ug/L			08/06/13 23:13	1
tert-Butylbenzene	ND		1.00	ug/L			08/06/13 23:13	1
Tetrachloroethene	ND		1.00	ug/L			08/06/13 23:13	1
Toluene	ND		1.00	ug/L			08/06/13 23:13	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/06/13 23:13	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/06/13 23:13	1
Trichloroethene	ND		1.00	ug/L			08/06/13 23:13	1
Trichlorofluoromethane	ND		1.00	ug/L			08/06/13 23:13	1
Vinyl chloride	ND		1.00	ug/L			08/06/13 23:13	1
Xylenes, Total	ND		2.00	ug/L			08/06/13 23:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	00		73 - 183		3/:3B:18 28m8	1
4-f rob ozuoro9enTene (Surr)	0/		73 - 183		3/:3B:18 28m8	1
Di9rob ozuorob ethane (Surr)	133		73 - 183		3/:3B:18 28m8	1
6oluene-d/ (Surr)	0/		73 - 183		3/:3B:18 28m8	1

Lab Sample ID: LCS 490-98164/3

Matrix: Water

Analysis Batch: 98164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.13		ug/L		101	74 - 135
1,1,1-Trichloroethane	20.0	19.91		ug/L		100	78 - 135
1,1,2,2-Tetrachloroethane	20.0	19.18		ug/L		96	69 - 131
1,1,2-Trichloroethane	20.0	19.89		ug/L		99	80 - 124
1,1-Dichloroethane	20.0	20.56		ug/L		103	78 - 125
Diisopropyl ether	20.0	20.95		ug/L		105	61 - 142
1,1-Dichloroethene	20.0	19.65		ug/L		98	79 - 124
1,1-Dichloropropene	20.0	19.97		ug/L		100	80 - 122
1,2,3-Trichlorobenzene	20.0	23.21		ug/L		116	62 - 133
1,2,3-Trichloropropane	20.0	18.98		ug/L		95	70 - 131
1,2,4-Trichlorobenzene	20.0	21.43		ug/L		107	63 - 133
1,2,4-Trimethylbenzene	20.0	20.80		ug/L		104	77 - 126
1,2-Dibromo-3-Chloropropane	20.0	15.98		ug/L		80	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.14		ug/L		101	80 - 129
1,2-Dichlorobenzene	20.0	20.26		ug/L		101	80 - 121
1,2-Dichloroethane	20.0	18.57		ug/L		93	77 - 121
1,2-Dichloropropane	20.0	20.19		ug/L		101	75 - 120
1,3,5-Trimethylbenzene	20.0	21.40		ug/L		107	77 - 127
1,3-Dichlorobenzene	20.0	20.17		ug/L		101	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-98164/3

Matrix: Water

Analysis Batch: 98164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	20.0	19.03		ug/L		95	80 - 125
1,4-Dichlorobenzene	20.0	19.81		ug/L		99	80 - 120
2,2-Dichloropropane	20.0	19.25		ug/L		96	43 - 161
2-Butanone (MEK)	100	98.92		ug/L		99	62 - 133
2-Chlorotoluene	20.0	19.97		ug/L		100	75 - 126
2-Hexanone	100	104.1		ug/L		104	60 - 142
4-Chlorotoluene	20.0	20.37		ug/L		102	75 - 130
4-Methyl-2-pentanone (MIBK)	100	101.5		ug/L		101	60 - 137
Acetone	100	98.94		ug/L		99	54 - 145
Benzene	20.0	20.62		ug/L		103	80 - 121
Bromobenzene	20.0	19.62		ug/L		98	68 - 130
Bromochloromethane	20.0	19.50		ug/L		97	78 - 129
Bromodichloromethane	20.0	19.81		ug/L		99	75 - 129
Bromoform	20.0	15.02		ug/L		75	46 - 145
Bromomethane	20.0	14.22		ug/L		71	41 - 150
Carbon disulfide	20.0	19.58		ug/L		98	77 - 126
Carbon tetrachloride	20.0	19.54		ug/L		98	64 - 147
Chlorobenzene	20.0	20.02		ug/L		100	80 - 120
Chlorodibromomethane	20.0	16.74		ug/L		84	69 - 133
Chloroethane	20.0	18.16		ug/L		91	72 - 120
Chloroform	20.0	19.80		ug/L		99	73 - 129
Chloromethane	20.0	11.08		ug/L		55	12 - 150
cis-1,2-Dichloroethene	20.0	20.20		ug/L		101	76 - 125
cis-1,3-Dichloropropene	20.0	17.55		ug/L		88	74 - 140
Dibromomethane	20.0	18.93		ug/L		95	71 - 125
Dichlorodifluoromethane	20.0	15.07		ug/L		75	37 - 127
Ethylbenzene	20.0	20.76		ug/L		104	80 - 130
Hexachlorobutadiene	20.0	18.54		ug/L		93	49 - 146
Isopropylbenzene	20.0	20.92		ug/L		105	80 - 141
Methyl tert-butyl ether	20.0	20.93		ug/L		105	72 - 133
Methylene Chloride	20.0	20.35		ug/L		102	79 - 123
Naphthalene	20.0	20.30		ug/L		101	62 - 138
n-Butylbenzene	20.0	21.31		ug/L		107	68 - 132
N-Propylbenzene	20.0	20.74		ug/L		104	75 - 129
p-Isopropyltoluene	20.0	21.17		ug/L		106	75 - 128
sec-Butylbenzene	20.0	21.18		ug/L		106	76 - 128
Styrene	20.0	21.55		ug/L		108	80 - 127
tert-Butylbenzene	20.0	21.20		ug/L		106	76 - 126
Tetrachloroethene	20.0	21.08		ug/L		105	80 - 126
Toluene	20.0	20.27		ug/L		101	80 - 126
trans-1,2-Dichloroethene	20.0	19.48		ug/L		97	79 - 126
trans-1,3-Dichloropropene	20.0	16.41		ug/L		82	63 - 134
Trichloroethene	20.0	20.16		ug/L		101	80 - 123
Trichlorofluoromethane	20.0	18.19		ug/L		91	65 - 124
Vinyl chloride	20.0	17.55		ug/L		88	68 - 120
Xylenes, Total	40.0	41.14		ug/L		103	80 - 132

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-98164/3

Matrix: Water

Analysis Batch: 98164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	08		73 - 183
4-f rob ozuoro9enTene (Surr)	0/		73 - 183
Di9rob ozuorob ethane (Surr)	0B		73 - 183
6oluene-d/ (Surr)	0B		73 - 183

Lab Sample ID: 490-32017-1 MS

Matrix: Water

Analysis Batch: 98164

Client Sample ID: OS10E

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	54.50		ug/L		109	73 - 141
1,1,1-Trichloroethane	ND		50.0	56.05		ug/L		112	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	49.45		ug/L		99	56 - 143
1,1,2-Trichloroethane	ND		50.0	49.59		ug/L		99	74 - 134
1,1-Dichloroethane	ND		50.0	52.68		ug/L		105	71 - 139
Diisopropyl ether	ND		50.0	51.88		ug/L		104	10 - 200
1,1-Dichloroethene	ND		50.0	55.11		ug/L		110	70 - 142
1,1-Dichloropropene	ND		50.0	55.87		ug/L		112	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	56.50		ug/L		112	55 - 138
1,2,3-Trichloropropane	ND		50.0	49.29		ug/L		99	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	52.44		ug/L		103	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	53.69		ug/L		107	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	42.62		ug/L		85	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	52.37		ug/L		105	75 - 137
1,2-Dichlorobenzene	ND		50.0	49.25		ug/L		99	79 - 128
1,2-Dichloroethane	ND		50.0	43.79		ug/L		88	64 - 136
1,2-Dichloropropane	ND		50.0	52.49		ug/L		105	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	54.85		ug/L		110	69 - 139
1,3-Dichlorobenzene	ND		50.0	50.17		ug/L		100	77 - 131
1,3-Dichloropropane	ND		50.0	47.25		ug/L		94	72 - 134
1,4-Dichlorobenzene	ND		50.0	50.07		ug/L		100	78 - 126
2,2-Dichloropropane	ND		50.0	47.68		ug/L		95	37 - 175
2-Butanone (MEK)	ND		250	257.5		ug/L		103	50 - 138
2-Chlorotoluene	ND		50.0	51.62		ug/L		103	67 - 138
2-Hexanone	ND		250	291.1		ug/L		116	50 - 150
4-Chlorotoluene	ND		50.0	50.64		ug/L		101	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	268.1		ug/L		107	50 - 147
Acetone	ND		250	250.4		ug/L		100	45 - 141
Benzene	ND		50.0	51.28		ug/L		103	75 - 133
Bromobenzene	ND		50.0	50.65		ug/L		101	60 - 138
Bromochloromethane	ND		50.0	50.28		ug/L		101	67 - 139
Bromodichloromethane	ND		50.0	54.17		ug/L		108	70 - 140
Bromoform	ND		50.0	42.30		ug/L		85	42 - 147
Bromomethane	ND		50.0	36.89		ug/L		74	16 - 163
Carbon disulfide	ND		50.0	52.80		ug/L		106	48 - 152
Carbon tetrachloride	ND		50.0	54.93		ug/L		110	62 - 164
Chlorobenzene	ND		50.0	51.37		ug/L		103	80 - 129
Chlorodibromomethane	ND		50.0	46.53		ug/L		93	66 - 140

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32017-1 MS

Client Sample ID: OS10E

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98164

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloroethane	ND		50.0	46.79		ug/L		94	58 - 137
Chloroform	ND		50.0	47.54		ug/L		95	66 - 138
Chloromethane	ND		50.0	38.88		ug/L		78	10 - 169
cis-1,2-Dichloroethene	ND		50.0	49.82		ug/L		100	68 - 138
cis-1,3-Dichloropropene	ND		50.0	50.33		ug/L		101	71 - 141
Dibromomethane	ND		50.0	47.74		ug/L		95	58 - 140
Dichlorodifluoromethane	ND		50.0	35.21		ug/L		70	40 - 127
Ethylbenzene	ND		50.0	52.17		ug/L		104	79 - 139
Hexachlorobutadiene	ND		50.0	49.96		ug/L		100	45 - 155
Isopropylbenzene	ND		50.0	53.96		ug/L		108	80 - 153
Methyl tert-butyl ether	ND		50.0	53.80		ug/L		108	66 - 141
Methylene Chloride	ND		50.0	52.53		ug/L		105	64 - 139
Naphthalene	ND		50.0	68.95		ug/L		138	55 - 140
n-Butylbenzene	ND		50.0	55.84		ug/L		112	66 - 141
N-Propylbenzene	ND		50.0	53.03		ug/L		106	69 - 142
p-Isopropyltoluene	ND		50.0	56.23		ug/L		112	71 - 137
sec-Butylbenzene	ND		50.0	55.94		ug/L		112	73 - 138
Styrene	ND		50.0	54.47		ug/L		109	61 - 148
tert-Butylbenzene	ND		50.0	55.74		ug/L		111	70 - 138
Tetrachloroethene	ND		50.0	50.48		ug/L		101	72 - 145
Toluene	ND		50.0	50.93		ug/L		102	75 - 136
trans-1,2-Dichloroethene	ND		50.0	51.87		ug/L		104	66 - 143
trans-1,3-Dichloropropene	ND		50.0	45.41		ug/L		91	59 - 135
Trichloroethene	ND		50.0	53.85		ug/L		108	73 - 144
Trichlorofluoromethane	ND		50.0	48.79		ug/L		98	58 - 139
Vinyl chloride	ND		50.0	47.96		ug/L		96	56 - 129
Xylenes, Total	ND		100	103.8		ug/L		104	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	/ 7		73 - 183
4-f rob ozuoro9enTene (Surr)	134		73 - 183
Di9rob ozuorob ethane (Surr)	0B		73 - 183
6oluene-d/ (Surr)	00		73 - 183

Lab Sample ID: 490-32017-1 MSD

Client Sample ID: OS10E

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98164

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	52.49		ug/L		105	73 - 141	4	16
1,1,1,1-Trichloroethane	ND		50.0	55.12		ug/L		110	76 - 149	2	17
1,1,1,2,2-Tetrachloroethane	ND		50.0	49.84		ug/L		100	56 - 143	1	20
1,1,1,2-Trichloroethane	ND		50.0	47.59		ug/L		95	74 - 134	4	15
1,1-Dichloroethane	ND		50.0	52.52		ug/L		105	71 - 139	0	17
Diisopropyl ether	ND		50.0	51.22		ug/L		102	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	53.80		ug/L		108	70 - 142	2	17
1,1-Dichloropropene	ND		50.0	55.00		ug/L		110	76 - 139	2	17
1,2,3-Trichlorobenzene	ND		50.0	60.23		ug/L		119	55 - 138	6	25

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32017-1 MSD

Client Sample ID: OS10E

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98164

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2,3-Trichloropropane	ND		50.0	50.32		ug/L		101	53 - 144	2	19
1,2,4-Trichlorobenzene	ND		50.0	58.28		ug/L		115	60 - 136	11	19
1,2,4-Trimethylbenzene	ND		50.0	54.07		ug/L		108	69 - 136	1	16
1,2-Dibromo-3-Chloropropane	ND		50.0	42.32		ug/L		85	52 - 126	1	24
1,2-Dibromoethane (EDB)	ND		50.0	50.75		ug/L		101	75 - 137	3	15
1,2-Dichlorobenzene	ND		50.0	49.95		ug/L		100	79 - 128	1	15
1,2-Dichloroethane	ND		50.0	42.82		ug/L		86	64 - 136	2	17
1,2-Dichloropropane	ND		50.0	50.17		ug/L		100	67 - 131	5	17
1,3,5-Trimethylbenzene	ND		50.0	55.64		ug/L		111	69 - 139	1	17
1,3-Dichlorobenzene	ND		50.0	51.34		ug/L		103	77 - 131	2	15
1,3-Dichloropropane	ND		50.0	45.29		ug/L		91	72 - 134	4	14
1,4-Dichlorobenzene	ND		50.0	51.38		ug/L		103	78 - 126	3	15
2,2-Dichloropropane	ND		50.0	46.06		ug/L		92	37 - 175	3	18
2-Butanone (MEK)	ND		250	249.9		ug/L		100	50 - 138	3	19
2-Chlorotoluene	ND		50.0	51.92		ug/L		104	67 - 138	1	17
2-Hexanone	ND		250	278.0		ug/L		111	50 - 150	5	15
4-Chlorotoluene	ND		50.0	50.85		ug/L		102	69 - 138	0	18
4-Methyl-2-pentanone (MIBK)	ND		250	258.2		ug/L		103	50 - 147	4	17
Acetone	ND		250	251.1		ug/L		100	45 - 141	0	21
Benzene	ND		50.0	50.71		ug/L		101	75 - 133	1	17
Bromobenzene	ND		50.0	51.34		ug/L		103	60 - 138	1	20
Bromochloromethane	ND		50.0	48.45		ug/L		97	67 - 139	4	17
Bromodichloromethane	ND		50.0	53.03		ug/L		106	70 - 140	2	18
Bromoform	ND		50.0	39.95		ug/L		80	42 - 147	6	16
Bromomethane	ND		50.0	43.03		ug/L		86	16 - 163	15	50
Carbon disulfide	ND		50.0	51.64		ug/L		103	48 - 152	2	21
Carbon tetrachloride	ND		50.0	53.85		ug/L		108	62 - 164	2	19
Chlorobenzene	ND		50.0	49.76		ug/L		100	80 - 129	3	14
Chlorodibromomethane	ND		50.0	44.45		ug/L		89	66 - 140	5	15
Chloroethane	ND		50.0	45.12		ug/L		90	58 - 137	4	20
Chloroform	ND		50.0	46.88		ug/L		94	66 - 138	1	18
Chloromethane	ND		50.0	35.87		ug/L		72	10 - 169	8	31
cis-1,2-Dichloroethene	ND		50.0	48.99		ug/L		98	68 - 138	2	17
cis-1,3-Dichloropropene	ND		50.0	49.12		ug/L		98	71 - 141	2	15
Dibromomethane	ND		50.0	46.10		ug/L		92	58 - 140	3	16
Dichlorodifluoromethane	ND		50.0	34.48		ug/L		69	40 - 127	2	18
Ethylbenzene	ND		50.0	50.15		ug/L		100	79 - 139	4	15
Hexachlorobutadiene	ND		50.0	56.03		ug/L		112	45 - 155	11	23
Isopropylbenzene	ND		50.0	52.06		ug/L		104	80 - 153	4	16
Methyl tert-butyl ether	ND		50.0	53.29		ug/L		107	66 - 141	1	16
Methylene Chloride	ND		50.0	51.80		ug/L		104	64 - 139	1	17
Naphthalene	ND		50.0	67.45		ug/L		135	55 - 140	2	26
n-Butylbenzene	ND		50.0	55.99		ug/L		112	66 - 141	0	18
N-Propylbenzene	ND		50.0	53.23		ug/L		106	69 - 142	0	17
p-Isopropyltoluene	ND		50.0	56.29		ug/L		113	71 - 137	0	16
sec-Butylbenzene	ND		50.0	56.49		ug/L		113	73 - 138	1	16
Styrene	ND		50.0	52.71		ug/L		105	61 - 148	3	24
tert-Butylbenzene	ND		50.0	56.21		ug/L		112	70 - 138	1	16

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32017-1 MSD

Client Sample ID: OS10E

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98164

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Tetrachloroethene	ND		50.0	48.90		ug/L		98	72 - 145	3	16
Toluene	ND		50.0	49.20		ug/L		98	75 - 136	3	15
trans-1,2-Dichloroethene	ND		50.0	50.55		ug/L		101	66 - 143	3	16
trans-1,3-Dichloropropene	ND		50.0	43.63		ug/L		87	59 - 135	4	14
Trichloroethene	ND		50.0	53.07		ug/L		106	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	46.60		ug/L		93	58 - 139	5	18
Vinyl chloride	ND		50.0	47.72		ug/L		95	56 - 129	1	17
Xylenes, Total	ND		100	101.1		ug/L		101	74 - 141	3	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	14		73 - 183
4-f rob ozuoro9enTene (Surr)	137		73 - 183
Di9rob ozuorob ethane (Surr)	0p		73 - 183
6oluene-d/ (Surr)	0/		73 - 183

Lab Sample ID: MB 490-98341/4

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98341

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 13:26	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/07/13 13:26	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/07/13 13:26	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/07/13 13:26	1
1,1-Dichloroethane	ND		1.00	ug/L			08/07/13 13:26	1
Diisopropyl ether	ND		2.00	ug/L			08/07/13 13:26	1
1,1-Dichloroethene	ND		1.00	ug/L			08/07/13 13:26	1
1,1-Dichloropropene	ND		1.00	ug/L			08/07/13 13:26	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,2,3-Trichloropropane	ND		1.00	ug/L			08/07/13 13:26	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/07/13 13:26	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/07/13 13:26	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,2-Dichloroethane	ND		1.00	ug/L			08/07/13 13:26	1
1,2-Dichloropropane	ND		1.00	ug/L			08/07/13 13:26	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
1,3-Dichloropropane	ND		1.00	ug/L			08/07/13 13:26	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
2,2-Dichloropropane	ND		1.00	ug/L			08/07/13 13:26	1
2-Butanone (MEK)	ND		50.0	ug/L			08/07/13 13:26	1
2-Chlorotoluene	ND		1.00	ug/L			08/07/13 13:26	1
2-Hexanone	ND		5.00	ug/L			08/07/13 13:26	1
4-Chlorotoluene	ND		1.00	ug/L			08/07/13 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/07/13 13:26	1
Acetone	5.019		5.00	ug/L			08/07/13 13:26	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-98341/4

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		1.00	ug/L			08/07/13 13:26	1
Bromobenzene	ND		1.00	ug/L			08/07/13 13:26	1
Bromochloromethane	ND		1.00	ug/L			08/07/13 13:26	1
Bromodichloromethane	ND		1.00	ug/L			08/07/13 13:26	1
Bromoform	ND		1.00	ug/L			08/07/13 13:26	1
Bromomethane	ND		1.00	ug/L			08/07/13 13:26	1
Carbon disulfide	ND		1.00	ug/L			08/07/13 13:26	1
Carbon tetrachloride	ND		1.00	ug/L			08/07/13 13:26	1
Chlorobenzene	ND		1.00	ug/L			08/07/13 13:26	1
Chlorodibromomethane	ND		1.00	ug/L			08/07/13 13:26	1
Chloroethane	ND		1.00	ug/L			08/07/13 13:26	1
Chloroform	ND		1.00	ug/L			08/07/13 13:26	1
Chloromethane	ND		1.00	ug/L			08/07/13 13:26	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 13:26	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 13:26	1
Dibromomethane	ND		1.00	ug/L			08/07/13 13:26	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/07/13 13:26	1
Ethylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
Hexachlorobutadiene	ND		2.00	ug/L			08/07/13 13:26	1
Isopropylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/07/13 13:26	1
Methylene Chloride	ND		5.00	ug/L			08/07/13 13:26	1
Naphthalene	ND		5.00	ug/L			08/07/13 13:26	1
n-Butylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
N-Propylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
p-Isopropyltoluene	ND		1.00	ug/L			08/07/13 13:26	1
sec-Butylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
Styrene	ND		1.00	ug/L			08/07/13 13:26	1
tert-Butylbenzene	ND		1.00	ug/L			08/07/13 13:26	1
Tetrachloroethene	ND		1.00	ug/L			08/07/13 13:26	1
Toluene	ND		1.00	ug/L			08/07/13 13:26	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/07/13 13:26	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/07/13 13:26	1
Trichloroethene	ND		1.00	ug/L			08/07/13 13:26	1
Trichlorofluoromethane	ND		1.00	ug/L			08/07/13 13:26	1
Vinyl chloride	ND		1.00	ug/L			08/07/13 13:26	1
Xylenes, Total	ND		2.00	ug/L			08/07/13 13:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	0/		73 - 183		3/:37:18 18r#B	1
4-f rob ozuoro9enTene (Surr)	00		73 - 183		3/:37:18 18r#B	1
Di9rob ozuorob ethane (Surr)	133		73 - 183		3/:37:18 18r#B	1
6oluene-d/ (Surr)	00		73 - 183		3/:37:18 18r#B	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-98341/3

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.96		ug/L		110	74 - 135
1,1,1-Trichloroethane	20.0	22.62		ug/L		113	78 - 135
1,1,2,2-Tetrachloroethane	20.0	21.93		ug/L		110	69 - 131
1,1,2-Trichloroethane	20.0	21.62		ug/L		108	80 - 124
1,1-Dichloroethane	20.0	22.47		ug/L		112	78 - 125
Diisopropyl ether	20.0	23.18		ug/L		116	61 - 142
1,1-Dichloroethene	20.0	22.72		ug/L		114	79 - 124
1,1-Dichloropropene	20.0	22.73		ug/L		114	80 - 122
1,2,3-Trichlorobenzene	20.0	23.86		ug/L		119	62 - 133
1,2,3-Trichloropropane	20.0	21.59		ug/L		108	70 - 131
1,2,4-Trichlorobenzene	20.0	21.85		ug/L		109	63 - 133
1,2,4-Trimethylbenzene	20.0	22.95		ug/L		115	77 - 126
1,2-Dibromo-3-Chloropropane	20.0	17.86		ug/L		89	54 - 125
1,2-Dibromoethane (EDB)	20.0	21.95		ug/L		110	80 - 129
1,2-Dichlorobenzene	20.0	21.31		ug/L		107	80 - 121
1,2-Dichloroethane	20.0	19.91		ug/L		100	77 - 121
1,2-Dichloropropane	20.0	22.26		ug/L		111	75 - 120
1,3,5-Trimethylbenzene	20.0	23.20		ug/L		116	77 - 127
1,3-Dichlorobenzene	20.0	21.77		ug/L		109	80 - 122
1,3-Dichloropropane	20.0	21.18		ug/L		106	80 - 125
1,4-Dichlorobenzene	20.0	21.75		ug/L		109	80 - 120
2,2-Dichloropropane	20.0	24.12		ug/L		121	43 - 161
2-Butanone (MEK)	100	111.6		ug/L		112	62 - 133
2-Chlorotoluene	20.0	21.75		ug/L		109	75 - 126
2-Hexanone	100	119.9		ug/L		120	60 - 142
4-Chlorotoluene	20.0	22.11		ug/L		111	75 - 130
4-Methyl-2-pentanone (MIBK)	100	116.6		ug/L		117	60 - 137
Acetone	100	112.3		ug/L		112	54 - 145
Benzene	20.0	22.53		ug/L		113	80 - 121
Bromobenzene	20.0	21.74		ug/L		109	68 - 130
Bromochloromethane	20.0	20.70		ug/L		104	78 - 129
Bromodichloromethane	20.0	21.78		ug/L		109	75 - 129
Bromoform	20.0	16.61		ug/L		83	46 - 145
Bromomethane	20.0	18.71		ug/L		94	41 - 150
Carbon disulfide	20.0	22.05		ug/L		110	77 - 126
Carbon tetrachloride	20.0	21.65		ug/L		108	64 - 147
Chlorobenzene	20.0	22.29		ug/L		111	80 - 120
Chlorodibromomethane	20.0	18.17		ug/L		91	69 - 133
Chloroethane	20.0	19.49		ug/L		97	72 - 120
Chloroform	20.0	21.29		ug/L		106	73 - 129
Chloromethane	20.0	17.30		ug/L		87	12 - 150
cis-1,2-Dichloroethene	20.0	21.83		ug/L		109	76 - 125
cis-1,3-Dichloropropene	20.0	20.13		ug/L		101	74 - 140
Dibromomethane	20.0	20.98		ug/L		105	71 - 125
Dichlorodifluoromethane	20.0	20.48		ug/L		102	37 - 127
Ethylbenzene	20.0	22.74		ug/L		114	80 - 130
Hexachlorobutadiene	20.0	20.22		ug/L		101	49 - 146
Isopropylbenzene	20.0	23.26		ug/L		116	80 - 141

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-98341/3

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	20.0	23.30		ug/L		116	72 - 133
Methylene Chloride	20.0	22.09		ug/L		110	79 - 123
Naphthalene	20.0	23.10		ug/L		116	62 - 138
n-Butylbenzene	20.0	23.52		ug/L		118	68 - 132
N-Propylbenzene	20.0	22.91		ug/L		115	75 - 129
p-Isopropyltoluene	20.0	23.44		ug/L		117	75 - 128
sec-Butylbenzene	20.0	23.31		ug/L		117	76 - 128
Styrene	20.0	23.44		ug/L		117	80 - 127
tert-Butylbenzene	20.0	22.87		ug/L		114	76 - 126
Tetrachloroethene	20.0	21.68		ug/L		108	80 - 126
Toluene	20.0	22.32		ug/L		112	80 - 126
trans-1,2-Dichloroethene	20.0	21.28		ug/L		106	79 - 126
trans-1,3-Dichloropropene	20.0	18.30		ug/L		91	63 - 134
Trichloroethene	20.0	22.04		ug/L		110	80 - 123
Trichlorofluoromethane	20.0	20.38		ug/L		102	65 - 124
Vinyl chloride	20.0	20.89		ug/L		104	68 - 120
Xylenes, Total	40.0	46.00		ug/L		115	80 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	02		73 - 183
4-f rob ozuoro9enTene (Surr)	133		73 - 183
Di9rob ozuorob ethane (Surr)	07		73 - 183
6oluene-d/ (Surr)	00		73 - 183

Lab Sample ID: 490-32413-B-9 MS

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		50.0	55.51		ug/L		111	73 - 141
1,1,1,1-Trichloroethane	ND		50.0	57.38		ug/L		115	76 - 149
1,1,1,2,2-Tetrachloroethane	ND		50.0	49.69		ug/L		99	56 - 143
1,1,2-Trichloroethane	ND		50.0	49.87		ug/L		100	74 - 134
1,1-Dichloroethane	ND		50.0	53.22		ug/L		106	71 - 139
Diisopropyl ether	ND		50.0	51.29		ug/L		103	10 - 200
1,1-Dichloroethene	ND		50.0	53.30		ug/L		107	70 - 142
1,1-Dichloropropene	ND		50.0	55.48		ug/L		111	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	51.42		ug/L		103	55 - 138
1,2,3-Trichloropropane	ND		50.0	48.25		ug/L		96	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	49.74		ug/L		99	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	52.35		ug/L		105	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	39.04		ug/L		78	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	53.38		ug/L		107	75 - 137
1,2-Dichlorobenzene	ND		50.0	49.55		ug/L		99	79 - 128
1,2-Dichloroethane	ND		50.0	47.02		ug/L		94	64 - 136
1,2-Dichloropropane	ND		50.0	51.86		ug/L		104	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	53.48		ug/L		107	69 - 139
1,3-Dichlorobenzene	ND		50.0	49.79		ug/L		100	77 - 131

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32413-B-9 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98341

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3-Dichloropropane	ND		50.0	47.44		ug/L		95	72 - 134
1,4-Dichlorobenzene	ND		50.0	50.76		ug/L		102	78 - 126
2,2-Dichloropropane	ND		50.0	53.32		ug/L		107	37 - 175
2-Butanone (MEK)	ND		250	266.7		ug/L		107	50 - 138
2-Chlorotoluene	ND		50.0	48.22		ug/L		96	67 - 138
2-Hexanone	ND		250	305.4		ug/L		122	50 - 150
4-Chlorotoluene	ND		50.0	48.78		ug/L		98	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	288.9		ug/L		116	50 - 147
Acetone	12.1	B	250	262.9		ug/L		100	45 - 141
Benzene	ND		50.0	52.27		ug/L		105	75 - 133
Bromobenzene	ND		50.0	48.40		ug/L		97	60 - 138
Bromochloromethane	ND		50.0	51.16		ug/L		102	67 - 139
Bromodichloromethane	ND		50.0	56.05		ug/L		112	70 - 140
Bromoform	ND		50.0	43.07		ug/L		86	42 - 147
Bromomethane	ND		50.0	38.06		ug/L		76	16 - 163
Carbon disulfide	ND		50.0	53.44		ug/L		107	48 - 152
Carbon tetrachloride	ND		50.0	57.47		ug/L		115	62 - 164
Chlorobenzene	ND		50.0	51.84		ug/L		104	80 - 129
Chlorodibromomethane	ND		50.0	47.15		ug/L		94	66 - 140
Chloroethane	ND		50.0	47.36		ug/L		95	58 - 137
Chloroform	ND		50.0	50.00		ug/L		100	66 - 138
Chloromethane	ND		50.0	39.50		ug/L		79	10 - 169
cis-1,2-Dichloroethene	ND		50.0	51.19		ug/L		102	68 - 138
cis-1,3-Dichloropropene	ND		50.0	49.20		ug/L		98	71 - 141
Dibromomethane	ND		50.0	50.80		ug/L		102	58 - 140
Dichlorodifluoromethane	ND		50.0	44.24		ug/L		88	40 - 127
Ethylbenzene	ND		50.0	52.23		ug/L		104	79 - 139
Hexachlorobutadiene	ND		50.0	47.86		ug/L		96	45 - 155
Isopropylbenzene	ND		50.0	54.52		ug/L		109	80 - 153
Methyl tert-butyl ether	ND		50.0	48.02		ug/L		96	66 - 141
Methylene Chloride	ND		50.0	52.51		ug/L		105	64 - 139
Naphthalene	ND		50.0	54.03		ug/L		108	55 - 140
n-Butylbenzene	ND		50.0	55.86		ug/L		112	66 - 141
N-Propylbenzene	ND		50.0	50.64		ug/L		101	69 - 142
p-Isopropyltoluene	ND		50.0	54.16		ug/L		108	71 - 137
sec-Butylbenzene	ND		50.0	54.47		ug/L		109	73 - 138
Styrene	ND		50.0	53.76		ug/L		108	61 - 148
tert-Butylbenzene	ND		50.0	53.45		ug/L		107	70 - 138
Tetrachloroethene	ND		50.0	51.36		ug/L		103	72 - 145
Toluene	ND		50.0	51.11		ug/L		102	75 - 136
trans-1,2-Dichloroethene	ND		50.0	51.86		ug/L		104	66 - 143
trans-1,3-Dichloropropene	ND		50.0	44.65		ug/L		89	59 - 135
Trichloroethene	ND		50.0	54.46		ug/L		109	73 - 144
Trichlorofluoromethane	ND		50.0	50.95		ug/L		102	58 - 139
Vinyl chloride	ND		50.0	49.59		ug/L		99	56 - 129
Xylenes, Total	ND		100	106.0		ug/L		106	74 - 141

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32413-B-9 MS

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	04		73 - 183
4-f rob ozuoro9enTene (Surr)	07		73 - 183
Di9rob ozuorob ethane (Surr)	07		73 - 183
6oluene-d/ (Surr)	0B		73 - 183

Lab Sample ID: 490-32413-C-9 MSD

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	55.14		ug/L		110	73 - 141	1	16
1,1,1-Trichloroethane	ND		50.0	57.07		ug/L		114	76 - 149	1	17
1,1,1,2,2-Tetrachloroethane	ND		50.0	50.71		ug/L		101	56 - 143	2	20
1,1,2-Trichloroethane	ND		50.0	50.36		ug/L		101	74 - 134	1	15
1,1-Dichloroethane	ND		50.0	53.87		ug/L		108	71 - 139	1	17
Diisopropyl ether	ND		50.0	52.71		ug/L		105	10 - 200	3	50
1,1-Dichloroethene	ND		50.0	54.53		ug/L		109	70 - 142	2	17
1,1-Dichloropropene	ND		50.0	55.36		ug/L		111	76 - 139	0	17
1,2,3-Trichlorobenzene	ND		50.0	51.84		ug/L		104	55 - 138	1	25
1,2,3-Trichloropropane	ND		50.0	49.21		ug/L		98	53 - 144	2	19
1,2,4-Trichlorobenzene	ND		50.0	51.46		ug/L		103	60 - 136	3	19
1,2,4-Trimethylbenzene	ND		50.0	52.73		ug/L		105	69 - 136	1	16
1,2-Dibromo-3-Chloropropane	ND		50.0	39.53		ug/L		79	52 - 126	1	24
1,2-Dibromoethane (EDB)	ND		50.0	53.31		ug/L		107	75 - 137	0	15
1,2-Dichlorobenzene	ND		50.0	50.64		ug/L		101	79 - 128	2	15
1,2-Dichloroethane	ND		50.0	47.47		ug/L		95	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	52.82		ug/L		106	67 - 131	2	17
1,3,5-Trimethylbenzene	ND		50.0	53.60		ug/L		107	69 - 139	0	17
1,3-Dichlorobenzene	ND		50.0	50.44		ug/L		101	77 - 131	1	15
1,3-Dichloropropane	ND		50.0	48.45		ug/L		97	72 - 134	2	14
1,4-Dichlorobenzene	ND		50.0	50.64		ug/L		101	78 - 126	0	15
2,2-Dichloropropane	ND		50.0	55.58		ug/L		111	37 - 175	4	18
2-Butanone (MEK)	ND		250	266.6		ug/L		107	50 - 138	0	19
2-Chlorotoluene	ND		50.0	50.01		ug/L		100	67 - 138	4	17
2-Hexanone	ND		250	315.0		ug/L		126	50 - 150	3	15
4-Chlorotoluene	ND		50.0	51.11		ug/L		102	69 - 138	5	18
4-Methyl-2-pentanone (MIBK)	ND		250	292.0		ug/L		117	50 - 147	1	17
Acetone	12.1	B	250	273.8		ug/L		105	45 - 141	4	21
Benzene	ND		50.0	52.17		ug/L		104	75 - 133	0	17
Bromobenzene	ND		50.0	48.44		ug/L		97	60 - 138	0	20
Bromochloromethane	ND		50.0	51.81		ug/L		104	67 - 139	1	17
Bromodichloromethane	ND		50.0	56.98		ug/L		114	70 - 140	2	18
Bromoform	ND		50.0	43.35		ug/L		87	42 - 147	1	16
Bromomethane	ND		50.0	44.39		ug/L		89	16 - 163	15	50
Carbon disulfide	ND		50.0	53.52		ug/L		107	48 - 152	0	21
Carbon tetrachloride	ND		50.0	57.74		ug/L		115	62 - 164	0	19
Chlorobenzene	ND		50.0	51.40		ug/L		103	80 - 129	1	14
Chlorodibromomethane	ND		50.0	48.38		ug/L		97	66 - 140	3	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32413-C-9 MSD

Matrix: Water

Analysis Batch: 98341

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Chloroethane	ND		50.0	46.60		ug/L		93	58 - 137	2	20
Chloroform	ND		50.0	49.67		ug/L		99	66 - 138	1	18
Chloromethane	ND		50.0	40.95		ug/L		82	10 - 169	4	31
cis-1,2-Dichloroethene	ND		50.0	52.21		ug/L		104	68 - 138	2	17
cis-1,3-Dichloropropene	ND		50.0	50.47		ug/L		101	71 - 141	3	15
Dibromomethane	ND		50.0	51.97		ug/L		104	58 - 140	2	16
Dichlorodifluoromethane	ND		50.0	42.03		ug/L		84	40 - 127	5	18
Ethylbenzene	ND		50.0	52.62		ug/L		105	79 - 139	1	15
Hexachlorobutadiene	ND		50.0	48.39		ug/L		97	45 - 155	1	23
Isopropylbenzene	ND		50.0	54.21		ug/L		108	80 - 153	1	16
Methyl tert-butyl ether	ND		50.0	51.94		ug/L		104	66 - 141	8	16
Methylene Chloride	ND		50.0	53.62		ug/L		107	64 - 139	2	17
Naphthalene	ND		50.0	55.24		ug/L		110	55 - 140	2	26
n-Butylbenzene	ND		50.0	55.55		ug/L		111	66 - 141	1	18
N-Propylbenzene	ND		50.0	51.25		ug/L		103	69 - 142	1	17
p-Isopropyltoluene	ND		50.0	55.25		ug/L		110	71 - 137	2	16
sec-Butylbenzene	ND		50.0	54.59		ug/L		109	73 - 138	0	16
Styrene	ND		50.0	54.10		ug/L		108	61 - 148	1	24
tert-Butylbenzene	ND		50.0	53.50		ug/L		107	70 - 138	0	16
Tetrachloroethene	ND		50.0	50.57		ug/L		101	72 - 145	2	16
Toluene	ND		50.0	50.85		ug/L		102	75 - 136	1	15
trans-1,2-Dichloroethene	ND		50.0	52.55		ug/L		105	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	46.21		ug/L		92	59 - 135	3	14
Trichloroethene	ND		50.0	54.39		ug/L		109	73 - 144	0	17
Trichlorofluoromethane	ND		50.0	49.77		ug/L		100	58 - 139	2	18
Vinyl chloride	ND		50.0	50.08		ug/L		100	56 - 129	1	17
Xylenes, Total	ND		100	105.1		ug/L		105	74 - 141	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	02		73 - 183
4-f rob ozuoro9enTene (Surr)	0B		73 - 183
Di9rob ozuorob ethane (Surr)	133		73 - 183
6oluene-d/ (Surr)	0p		73 - 183

Lab Sample ID: MB 490-98498/4

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			08/08/13 01:35	1
1,1,1-Trichloroethane	ND		1.00	ug/L			08/08/13 01:35	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			08/08/13 01:35	1
1,1,2-Trichloroethane	ND		1.00	ug/L			08/08/13 01:35	1
1,1-Dichloroethane	ND		1.00	ug/L			08/08/13 01:35	1
Diisopropyl ether	ND		2.00	ug/L			08/08/13 01:35	1
1,1-Dichloroethene	ND		1.00	ug/L			08/08/13 01:35	1
1,1-Dichloropropene	ND		1.00	ug/L			08/08/13 01:35	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-98498/4

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,3-Trichloropropane	ND		1.00	ug/L			08/08/13 01:35	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			08/08/13 01:35	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			08/08/13 01:35	1
1,2-Dichlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1
1,2-Dichloroethane	ND		1.00	ug/L			08/08/13 01:35	1
1,2-Dichloropropane	ND		1.00	ug/L			08/08/13 01:35	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
1,3-Dichlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1
1,3-Dichloropropane	ND		1.00	ug/L			08/08/13 01:35	1
1,4-Dichlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1
2,2-Dichloropropane	ND		1.00	ug/L			08/08/13 01:35	1
2-Butanone (MEK)	ND		50.0	ug/L			08/08/13 01:35	1
2-Chlorotoluene	ND		1.00	ug/L			08/08/13 01:35	1
2-Hexanone	ND		5.00	ug/L			08/08/13 01:35	1
4-Chlorotoluene	ND		1.00	ug/L			08/08/13 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			08/08/13 01:35	1
Acetone	ND		5.00	ug/L			08/08/13 01:35	1
Benzene	ND		1.00	ug/L			08/08/13 01:35	1
Bromobenzene	ND		1.00	ug/L			08/08/13 01:35	1
Bromochloromethane	ND		1.00	ug/L			08/08/13 01:35	1
Bromodichloromethane	ND		1.00	ug/L			08/08/13 01:35	1
Bromoform	ND		1.00	ug/L			08/08/13 01:35	1
Bromomethane	ND		1.00	ug/L			08/08/13 01:35	1
Carbon disulfide	ND		1.00	ug/L			08/08/13 01:35	1
Carbon tetrachloride	ND		1.00	ug/L			08/08/13 01:35	1
Chlorobenzene	ND		1.00	ug/L			08/08/13 01:35	1
Chlorodibromomethane	ND		1.00	ug/L			08/08/13 01:35	1
Chloroethane	ND		1.00	ug/L			08/08/13 01:35	1
Chloroform	ND		1.00	ug/L			08/08/13 01:35	1
Chloromethane	ND		1.00	ug/L			08/08/13 01:35	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			08/08/13 01:35	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			08/08/13 01:35	1
Dibromomethane	ND		1.00	ug/L			08/08/13 01:35	1
Dichlorodifluoromethane	ND		1.00	ug/L			08/08/13 01:35	1
Ethylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
Hexachlorobutadiene	ND		2.00	ug/L			08/08/13 01:35	1
Isopropylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
Methyl tert-butyl ether	ND		1.00	ug/L			08/08/13 01:35	1
Methylene Chloride	ND		5.00	ug/L			08/08/13 01:35	1
Naphthalene	ND		5.00	ug/L			08/08/13 01:35	1
n-Butylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
N-Propylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
p-Isopropyltoluene	ND		1.00	ug/L			08/08/13 01:35	1
sec-Butylbenzene	ND		1.00	ug/L			08/08/13 01:35	1
Styrene	ND		1.00	ug/L			08/08/13 01:35	1
tert-Butylbenzene	ND		1.00	ug/L			08/08/13 01:35	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-98498/4

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	ug/L			08/08/13 01:35	1
Toluene	ND		1.00	ug/L			08/08/13 01:35	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			08/08/13 01:35	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			08/08/13 01:35	1
Trichloroethene	ND		1.00	ug/L			08/08/13 01:35	1
Trichlorofluoromethane	ND		1.00	ug/L			08/08/13 01:35	1
Vinyl chloride	ND		1.00	ug/L			08/08/13 01:35	1
Xylenes, Total	ND		2.00	ug/L			08/08/13 01:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	0/		73 - 183		3/:3/:18 31r8p	1
4-f rob ozuoro9enTene (Surr)	07		73 - 183		3/:3/:18 31r8p	1
Di9rob ozuorob ethane (Surr)	00		73 - 183		3/:3/:18 31r8p	1
6oluene-d/ (Surr)	0/		73 - 183		3/:3/:18 31r8p	1

Lab Sample ID: LCS 490-98498/3

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.35		ug/L		102	74 - 135
1,1,1-Trichloroethane	20.0	21.28		ug/L		106	78 - 135
1,1,1,2-Tetrachloroethane	20.0	20.68		ug/L		103	69 - 131
1,1,2-Trichloroethane	20.0	20.79		ug/L		104	80 - 124
1,1-Dichloroethane	20.0	21.87		ug/L		109	78 - 125
Diisopropyl ether	20.0	21.80		ug/L		109	61 - 142
1,1-Dichloroethene	20.0	20.30		ug/L		101	79 - 124
1,1-Dichloropropene	20.0	21.45		ug/L		107	80 - 122
1,2,3-Trichlorobenzene	20.0	21.18		ug/L		106	62 - 133
1,2,3-Trichloropropane	20.0	20.96		ug/L		105	70 - 131
1,2,4-Trichlorobenzene	20.0	20.37		ug/L		102	63 - 133
1,2,4-Trimethylbenzene	20.0	22.23		ug/L		111	77 - 126
1,2-Dibromo-3-Chloropropane	20.0	16.42		ug/L		82	54 - 125
1,2-Dibromoethane (EDB)	20.0	21.05		ug/L		105	80 - 129
1,2-Dichlorobenzene	20.0	21.12		ug/L		106	80 - 121
1,2-Dichloroethane	20.0	19.92		ug/L		100	77 - 121
1,2-Dichloropropane	20.0	21.02		ug/L		105	75 - 120
1,3,5-Trimethylbenzene	20.0	22.43		ug/L		112	77 - 127
1,3-Dichlorobenzene	20.0	21.07		ug/L		105	80 - 122
1,3-Dichloropropane	20.0	20.08		ug/L		100	80 - 125
1,4-Dichlorobenzene	20.0	21.21		ug/L		106	80 - 120
2,2-Dichloropropane	20.0	18.56		ug/L		93	43 - 161
2-Butanone (MEK)	100	105.1		ug/L		105	62 - 133
2-Chlorotoluene	20.0	20.71		ug/L		104	75 - 126
2-Hexanone	100	114.4		ug/L		114	60 - 142
4-Chlorotoluene	20.0	21.32		ug/L		107	75 - 130
4-Methyl-2-pentanone (MIBK)	100	113.5		ug/L		113	60 - 137
Acetone	100	107.0		ug/L		107	54 - 145

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-98498/3

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.75		ug/L		109	80 - 121
Bromobenzene	20.0	20.44		ug/L		102	68 - 130
Bromochloromethane	20.0	20.57		ug/L		103	78 - 129
Bromodichloromethane	20.0	21.00		ug/L		105	75 - 129
Bromoform	20.0	15.72		ug/L		79	46 - 145
Bromomethane	20.0	17.96		ug/L		90	41 - 150
Carbon disulfide	20.0	21.35		ug/L		107	77 - 126
Carbon tetrachloride	20.0	21.06		ug/L		105	64 - 147
Chlorobenzene	20.0	21.27		ug/L		106	80 - 120
Chlorodibromomethane	20.0	17.03		ug/L		85	69 - 133
Chloroethane	20.0	19.10		ug/L		96	72 - 120
Chloroform	20.0	20.53		ug/L		103	73 - 129
Chloromethane	20.0	16.01		ug/L		80	12 - 150
cis-1,2-Dichloroethene	20.0	21.23		ug/L		106	76 - 125
cis-1,3-Dichloropropene	20.0	17.55		ug/L		88	74 - 140
Dibromomethane	20.0	21.00		ug/L		105	71 - 125
Dichlorodifluoromethane	20.0	20.20		ug/L		101	37 - 127
Ethylbenzene	20.0	21.69		ug/L		108	80 - 130
Hexachlorobutadiene	20.0	19.70		ug/L		99	49 - 146
Isopropylbenzene	20.0	21.99		ug/L		110	80 - 141
Methyl tert-butyl ether	20.0	20.23		ug/L		101	72 - 133
Methylene Chloride	20.0	21.39		ug/L		107	79 - 123
Naphthalene	20.0	21.13		ug/L		106	62 - 138
n-Butylbenzene	20.0	22.36		ug/L		112	68 - 132
N-Propylbenzene	20.0	21.53		ug/L		108	75 - 129
p-Isopropyltoluene	20.0	21.99		ug/L		110	75 - 128
sec-Butylbenzene	20.0	22.34		ug/L		112	76 - 128
Styrene	20.0	22.20		ug/L		111	80 - 127
tert-Butylbenzene	20.0	21.61		ug/L		108	76 - 126
Tetrachloroethene	20.0	21.42		ug/L		107	80 - 126
Toluene	20.0	21.42		ug/L		107	80 - 126
trans-1,2-Dichloroethene	20.0	20.63		ug/L		103	79 - 126
trans-1,3-Dichloropropene	20.0	15.59		ug/L		78	63 - 134
Trichloroethene	20.0	21.48		ug/L		107	80 - 123
Trichlorofluoromethane	20.0	19.10		ug/L		96	65 - 124
Vinyl chloride	20.0	20.07		ug/L		100	68 - 120
Xylenes, Total	40.0	42.89		ug/L		107	80 - 132

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	08		73 - 183
4-fluorobenzene (Surr)	0p		73 - 183
Dibromodifluoroethane (Surr)	07		73 - 183
1,4-Dichlorobenzene (Surr)	0B		73 - 183

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32376-B-1 MS

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		50.0	55.83		ug/L		112	73 - 141
1,1,1-Trichloroethane	ND		50.0	58.95		ug/L		118	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	49.33		ug/L		99	56 - 143
1,1,2-Trichloroethane	ND		50.0	50.18		ug/L		100	74 - 134
1,1-Dichloroethane	ND		50.0	56.03		ug/L		112	71 - 139
Diisopropyl ether	ND		50.0	53.18		ug/L		106	10 - 200
1,1-Dichloroethene	ND		50.0	56.19		ug/L		112	70 - 142
1,1-Dichloropropene	ND		50.0	57.53		ug/L		115	76 - 139
1,2,3-Trichlorobenzene	ND		50.0	50.39		ug/L		101	55 - 138
1,2,3-Trichloropropane	ND		50.0	49.04		ug/L		98	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	48.58		ug/L		97	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	53.93		ug/L		108	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	38.80		ug/L		78	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	52.59		ug/L		105	75 - 137
1,2-Dichlorobenzene	ND		50.0	50.74		ug/L		101	79 - 128
1,2-Dichloroethane	ND		50.0	49.11		ug/L		98	64 - 136
1,2-Dichloropropane	ND		50.0	54.28		ug/L		109	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	53.71		ug/L		107	69 - 139
1,3-Dichlorobenzene	ND		50.0	50.61		ug/L		101	77 - 131
1,3-Dichloropropane	ND		50.0	48.06		ug/L		96	72 - 134
1,4-Dichlorobenzene	ND		50.0	51.18		ug/L		102	78 - 126
2,2-Dichloropropane	ND		50.0	43.74		ug/L		87	37 - 175
2-Butanone (MEK)	ND		250	273.2		ug/L		109	50 - 138
2-Chlorotoluene	ND		50.0	49.42		ug/L		99	67 - 138
2-Hexanone	ND		250	291.0		ug/L		116	50 - 150
4-Chlorotoluene	ND		50.0	49.34		ug/L		99	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	274.4		ug/L		110	50 - 147
Acetone	ND		250	267.6		ug/L		107	45 - 141
Benzene	ND		50.0	55.20		ug/L		110	75 - 133
Bromobenzene	ND		50.0	48.84		ug/L		98	60 - 138
Bromochloromethane	ND		50.0	53.28		ug/L		107	67 - 139
Bromodichloromethane	ND		50.0	58.71		ug/L		117	70 - 140
Bromoform	ND		50.0	42.06		ug/L		84	42 - 147
Bromomethane	ND		50.0	43.82		ug/L		88	16 - 163
Carbon disulfide	ND		50.0	54.86		ug/L		110	48 - 152
Carbon tetrachloride	ND		50.0	60.14		ug/L		120	62 - 164
Chlorobenzene	ND		50.0	52.21		ug/L		104	80 - 129
Chlorodibromomethane	ND		50.0	46.81		ug/L		94	66 - 140
Chloroethane	ND		50.0	48.39		ug/L		97	58 - 137
Chloroform	ND		50.0	52.41		ug/L		105	66 - 138
Chloromethane	ND		50.0	38.01		ug/L		76	10 - 169
cis-1,2-Dichloroethene	ND		50.0	52.33		ug/L		105	68 - 138
cis-1,3-Dichloropropene	ND		50.0	47.18		ug/L		94	71 - 141
Dibromomethane	ND		50.0	51.60		ug/L		103	58 - 140
Dichlorodifluoromethane	ND		50.0	42.89		ug/L		86	40 - 127
Ethylbenzene	ND		50.0	52.90		ug/L		106	79 - 139
Hexachlorobutadiene	ND		50.0	46.15		ug/L		92	45 - 155
Isopropylbenzene	ND		50.0	54.28		ug/L		109	80 - 153

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32376-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98498

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Methyl tert-butyl ether	ND		50.0	47.35		ug/L		95	66 - 141
Methylene Chloride	ND		50.0	54.80		ug/L		110	64 - 139
Naphthalene	ND		50.0	52.37		ug/L		105	55 - 140
n-Butylbenzene	ND		50.0	55.92		ug/L		112	66 - 141
N-Propylbenzene	ND		50.0	51.71		ug/L		103	69 - 142
p-Isopropyltoluene	ND		50.0	55.06		ug/L		110	71 - 137
sec-Butylbenzene	ND		50.0	56.30		ug/L		113	73 - 138
Styrene	ND		50.0	54.92		ug/L		110	61 - 148
tert-Butylbenzene	ND		50.0	54.87		ug/L		110	70 - 138
Tetrachloroethene	ND		50.0	50.93		ug/L		102	72 - 145
Toluene	ND		50.0	51.52		ug/L		103	75 - 136
trans-1,2-Dichloroethene	ND		50.0	53.66		ug/L		107	66 - 143
trans-1,3-Dichloropropene	ND		50.0	42.46		ug/L		85	59 - 135
Trichloroethene	ND		50.0	56.62		ug/L		113	73 - 144
Trichlorofluoromethane	ND		50.0	52.90		ug/L		106	58 - 139
Vinyl chloride	ND		50.0	51.99		ug/L		104	56 - 129
Xylenes, Total	ND		100	106.1		ug/L		106	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	0p		73 - 183
4-f rob ozuoro9enTene (Surr)	0p		73 - 183
Di9rob ozuorob ethane (Surr)	138		73 - 183
6oluene-d/ (Surr)	04		73 - 183

Lab Sample ID: 490-32376-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 98498

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	57.10		ug/L		114	73 - 141	2	16
1,1,1,1-Trichloroethane	ND		50.0	59.40		ug/L		119	76 - 149	1	17
1,1,1,2,2-Tetrachloroethane	ND		50.0	51.04		ug/L		102	56 - 143	3	20
1,1,2-Trichloroethane	ND		50.0	51.94		ug/L		104	74 - 134	3	15
1,1-Dichloroethane	ND		50.0	56.22		ug/L		112	71 - 139	0	17
Diisopropyl ether	ND		50.0	53.67		ug/L		107	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	55.39		ug/L		111	70 - 142	1	17
1,1-Dichloropropene	ND		50.0	58.14		ug/L		116	76 - 139	1	17
1,2,3-Trichlorobenzene	ND		50.0	54.45		ug/L		109	55 - 138	8	25
1,2,3-Trichloropropane	ND		50.0	51.24		ug/L		102	53 - 144	4	19
1,2,4-Trichlorobenzene	ND		50.0	51.68		ug/L		103	60 - 136	6	19
1,2,4-Trimethylbenzene	ND		50.0	54.17		ug/L		108	69 - 136	0	16
1,2-Dibromo-3-Chloropropane	ND		50.0	40.41		ug/L		81	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND		50.0	52.75		ug/L		105	75 - 137	0	15
1,2-Dichlorobenzene	ND		50.0	51.35		ug/L		103	79 - 128	1	15
1,2-Dichloroethane	ND		50.0	49.01		ug/L		98	64 - 136	0	17
1,2-Dichloropropane	ND		50.0	54.42		ug/L		109	67 - 131	0	17
1,3,5-Trimethylbenzene	ND		50.0	55.68		ug/L		111	69 - 139	4	17
1,3-Dichlorobenzene	ND		50.0	51.88		ug/L		104	77 - 131	2	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32376-C-1 MSD

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	ND		50.0	48.61		ug/L		97	72 - 134	1	14
1,4-Dichlorobenzene	ND		50.0	51.84		ug/L		104	78 - 126	1	15
2,2-Dichloropropane	ND		50.0	44.53		ug/L		89	37 - 175	2	18
2-Butanone (MEK)	ND		250	285.7		ug/L		114	50 - 138	4	19
2-Chlorotoluene	ND		50.0	51.00		ug/L		102	67 - 138	3	17
2-Hexanone	ND		250	303.7		ug/L		121	50 - 150	4	15
4-Chlorotoluene	ND		50.0	50.91		ug/L		102	69 - 138	3	18
4-Methyl-2-pentanone (MIBK)	ND		250	288.4		ug/L		115	50 - 147	5	17
Acetone	ND		250	271.1		ug/L		108	45 - 141	1	21
Benzene	ND		50.0	55.38		ug/L		111	75 - 133	0	17
Bromobenzene	ND		50.0	49.86		ug/L		100	60 - 138	2	20
Bromochloromethane	ND		50.0	53.10		ug/L		106	67 - 139	0	17
Bromodichloromethane	ND		50.0	58.50		ug/L		117	70 - 140	0	18
Bromoform	ND		50.0	43.61		ug/L		87	42 - 147	4	16
Bromomethane	ND		50.0	47.97		ug/L		96	16 - 163	9	50
Carbon disulfide	ND		50.0	54.72		ug/L		109	48 - 152	0	21
Carbon tetrachloride	ND		50.0	60.24		ug/L		120	62 - 164	0	19
Chlorobenzene	ND		50.0	53.36		ug/L		107	80 - 129	2	14
Chlorodibromomethane	ND		50.0	48.44		ug/L		97	66 - 140	3	15
Chloroethane	ND		50.0	46.42		ug/L		93	58 - 137	4	20
Chloroform	ND		50.0	52.24		ug/L		104	66 - 138	0	18
Chloromethane	ND		50.0	33.84		ug/L		68	10 - 169	12	31
cis-1,2-Dichloroethene	ND		50.0	52.87		ug/L		106	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	48.50		ug/L		97	71 - 141	3	15
Dibromomethane	ND		50.0	52.72		ug/L		105	58 - 140	2	16
Dichlorodifluoromethane	ND		50.0	40.08		ug/L		80	40 - 127	7	18
Ethylbenzene	ND		50.0	54.18		ug/L		108	79 - 139	2	15
Hexachlorobutadiene	ND		50.0	48.05		ug/L		96	45 - 155	4	23
Isopropylbenzene	ND		50.0	56.35		ug/L		113	80 - 153	4	16
Methyl tert-butyl ether	ND		50.0	49.75		ug/L		99	66 - 141	5	16
Methylene Chloride	ND		50.0	56.14		ug/L		112	64 - 139	2	17
Naphthalene	ND		50.0	57.25		ug/L		115	55 - 140	9	26
n-Butylbenzene	ND		50.0	56.94		ug/L		114	66 - 141	2	18
N-Propylbenzene	ND		50.0	52.54		ug/L		105	69 - 142	2	17
p-Isopropyltoluene	ND		50.0	55.87		ug/L		112	71 - 137	1	16
sec-Butylbenzene	ND		50.0	56.66		ug/L		113	73 - 138	1	16
Styrene	ND		50.0	56.32		ug/L		113	61 - 148	3	24
tert-Butylbenzene	ND		50.0	55.82		ug/L		112	70 - 138	2	16
Tetrachloroethene	ND		50.0	51.66		ug/L		103	72 - 145	1	16
Toluene	ND		50.0	52.70		ug/L		105	75 - 136	2	15
trans-1,2-Dichloroethene	ND		50.0	53.81		ug/L		108	66 - 143	0	16
trans-1,3-Dichloropropene	ND		50.0	42.87		ug/L		86	59 - 135	1	14
Trichloroethene	ND		50.0	56.19		ug/L		112	73 - 144	1	17
Trichlorofluoromethane	ND		50.0	51.14		ug/L		102	58 - 139	3	18
Vinyl chloride	ND		50.0	50.68		ug/L		101	56 - 129	3	17
Xylenes, Total	ND		100	108.1		ug/L		108	74 - 141	2	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-32376-C-1 MSD

Matrix: Water

Analysis Batch: 98498

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	01		73 - 183
4-f rob ozuoro9enTene (Surr)	07		73 - 183
Di9rob ozuorob ethane (Surr)	133		73 - 183
6oluene-d/ (Surr)	0B		73 - 183

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-97161/1-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,2,4-Trichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,2-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,2-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,3-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,3-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,4-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1,4-Dichlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
1-Methylnaphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
1-Methylnaphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dichlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dichlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dimethylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dimethylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dinitrophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dinitrophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dinitrotoluene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,4-Dinitrotoluene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,6-Dinitrotoluene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2,6-Dinitrotoluene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Chloronaphthalene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Chloronaphthalene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Chlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Chlorophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Methylnaphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Methylnaphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Nitrophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
2-Nitrophenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-97161/1-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
3 & 4 Methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
3 & 4 Methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
3-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
3-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chloroaniline	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Chloroaniline	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Nitroaniline	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Nitrophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
4-Nitrophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Acenaphthylene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Acenaphthylene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Acenaphthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Acenaphthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[a]anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[a]anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[a]pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[a]pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[b]fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[b]fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[k]fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Benzo[k]fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Butyl benzyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Butyl benzyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Carbazole	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Carbazole	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-97161/1-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Chrysene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Cresols	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Cresols	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dibenzofuran	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dibenzofuran	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Diethyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Diethyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dimethyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Dimethyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Di-n-butyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Di-n-butyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Di-n-octyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Di-n-octyl phthalate	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Fluoranthene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Fluorene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Fluorene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorobutadiene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorobutadiene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachloroethane	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Hexachloroethane	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Isophorone	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Isophorone	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Naphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Naphthalene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Nitrobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Nitrobenzene	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Pentachlorophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Pentachlorophenol	ND		25.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Phenanthrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Phenanthrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Phenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Phenol	ND		10.0	ug/L		08/01/13 18:32	08/03/13 20:14	1
Pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-97161/1-A

Matrix: Water

Analysis Batch: 97546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97161

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		2.00	ug/L		08/01/13 18:32	08/03/13 20:14	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-tri9rob o5henol (Surr)	//		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
2,4,6-tri9rob o5henol (Surr)	//		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
2-Fluoro9i5henyl (Surr)	B1		20 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
2-Fluoro9i5henyl (Surr)	B1		20 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
2-Fluoro5henol (Surr)	87		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
2-Fluoro5henol (Surr)	87		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
Nitro9enTene-dp (Surr)	B3		27 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
Nitro9enTene-dp (Surr)	B3		27 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
Phenol-dp (Surr)	2p		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
Phenol-dp (Surr)	2p		13 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
6er5henyl-d14 (Surr)	/7		18 - 123			3/:31:18 1/r82	3/:38:18 23m4	1
6er5henyl-d14 (Surr)	/7		18 - 123			3/:31:18 1/r82	3/:38:18 23m4	1

Lab Sample ID: LCS 490-97161/2-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	35.74		ug/L		71	30 - 120
1,2,4-Trichlorobenzene	50.0	35.74		ug/L		71	30 - 120
1,2-Dichlorobenzene	50.0	33.30		ug/L		67	32 - 120
1,2-Dichlorobenzene	50.0	33.30		ug/L		67	32 - 120
1,3-Dichlorobenzene	50.0	32.53		ug/L		65	32 - 120
1,3-Dichlorobenzene	50.0	32.53		ug/L		65	32 - 120
1,4-Dichlorobenzene	50.0	32.93		ug/L		66	31 - 120
1,4-Dichlorobenzene	50.0	32.93		ug/L		66	31 - 120
1-Methylnaphthalene	50.0	37.20		ug/L		74	36 - 120
1-Methylnaphthalene	50.0	37.20		ug/L		74	36 - 120
2,4,5-Trichlorophenol	50.0	46.66		ug/L		93	40 - 129
2,4,5-Trichlorophenol	50.0	46.66		ug/L		93	40 - 129
2,4,6-Trichlorophenol	50.0	47.32		ug/L		95	39 - 135
2,4,6-Trichlorophenol	50.0	47.32		ug/L		95	39 - 135
2,4-Dichlorophenol	50.0	44.67		ug/L		89	38 - 120
2,4-Dichlorophenol	50.0	44.67		ug/L		89	38 - 120
2,4-Dimethylphenol	50.0	41.02		ug/L		82	21 - 126
2,4-Dimethylphenol	50.0	41.02		ug/L		82	21 - 126
2,4-Dinitrophenol	100	80.88		ug/L		81	20 - 150
2,4-Dinitrophenol	100	80.88		ug/L		81	20 - 150
2,4-Dinitrotoluene	50.0	45.26		ug/L		91	46 - 132
2,4-Dinitrotoluene	50.0	45.26		ug/L		91	46 - 132
2,6-Dinitrotoluene	50.0	47.17		ug/L		94	54 - 128
2,6-Dinitrotoluene	50.0	47.17		ug/L		94	54 - 128
2-Chloronaphthalene	50.0	37.55		ug/L		75	39 - 120
2-Chloronaphthalene	50.0	37.55		ug/L		75	39 - 120
2-Chlorophenol	50.0	40.41		ug/L		81	40 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-97161/2-A

Matrix: Water

Analysis Batch: 97546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
2-Chlorophenol	50.0	40.41		ug/L		81	40 - 120
2-Methylnaphthalene	50.0	36.95		ug/L		74	31 - 120
2-Methylnaphthalene	50.0	36.95		ug/L		74	31 - 120
2-Methylphenol	50.0	37.47		ug/L		75	38 - 120
2-Methylphenol	50.0	37.47		ug/L		75	38 - 120
2-Nitroaniline	50.0	44.30		ug/L		89	46 - 131
2-Nitroaniline	50.0	44.30		ug/L		89	46 - 131
2-Nitrophenol	50.0	46.06		ug/L		92	32 - 120
2-Nitrophenol	50.0	46.06		ug/L		92	32 - 120
3,3'-Dichlorobenzidine	50.0	39.62		ug/L		79	46 - 129
3,3'-Dichlorobenzidine	50.0	39.62		ug/L		79	46 - 129
3 & 4 Methylphenol	50.0	32.39		ug/L		65	33 - 120
3 & 4 Methylphenol	50.0	32.39		ug/L		65	33 - 120
3-Nitroaniline	50.0	37.73		ug/L		75	54 - 121
3-Nitroaniline	50.0	37.73		ug/L		75	54 - 121
4,6-Dinitro-2-methylphenol	100	92.01		ug/L		92	19 - 150
4,6-Dinitro-2-methylphenol	100	92.01		ug/L		92	19 - 150
4-Bromophenyl phenyl ether	50.0	47.62		ug/L		95	47 - 127
4-Bromophenyl phenyl ether	50.0	47.62		ug/L		95	47 - 127
4-Chloro-3-methylphenol	50.0	43.48		ug/L		87	44 - 120
4-Chloro-3-methylphenol	50.0	43.48		ug/L		87	44 - 120
4-Chlorophenyl phenyl ether	50.0	42.06		ug/L		84	50 - 120
4-Chlorophenyl phenyl ether	50.0	42.06		ug/L		84	50 - 120
4-Chloroaniline	50.0	37.65		ug/L		75	44 - 120
4-Chloroaniline	50.0	37.65		ug/L		75	44 - 120
4-Nitroaniline	50.0	40.41		ug/L		81	55 - 123
4-Nitroaniline	50.0	40.41		ug/L		81	55 - 123
4-Nitrophenol	100	66.19		ug/L		66	10 - 120
4-Nitrophenol	100	66.19		ug/L		66	10 - 120
Acenaphthylene	50.0	40.44		ug/L		81	48 - 120
Acenaphthylene	50.0	40.44		ug/L		81	48 - 120
Acenaphthene	50.0	39.60		ug/L		79	46 - 120
Acenaphthene	50.0	39.60		ug/L		79	46 - 120
Benzo[a]anthracene	50.0	45.94		ug/L		92	57 - 120
Benzo[a]anthracene	50.0	45.94		ug/L		92	57 - 120
Benzo[a]pyrene	50.0	44.38		ug/L		89	57 - 124
Benzo[a]pyrene	50.0	44.38		ug/L		89	57 - 124
Benzo[b]fluoranthene	50.0	44.58		ug/L		89	51 - 125
Benzo[b]fluoranthene	50.0	44.58		ug/L		89	51 - 125
Benzo[g,h,i]perylene	50.0	43.74		ug/L		87	51 - 123
Benzo[g,h,i]perylene	50.0	43.74		ug/L		87	51 - 123
Benzo[k]fluoranthene	50.0	41.92		ug/L		84	51 - 120
Benzo[k]fluoranthene	50.0	41.92		ug/L		84	51 - 120
Anthracene	50.0	45.80		ug/L		92	58 - 130
Anthracene	50.0	45.80		ug/L		92	58 - 130
Bis(2-chloroethoxy)methane	50.0	39.97		ug/L		80	44 - 120
Bis(2-chloroethoxy)methane	50.0	39.97		ug/L		80	44 - 120
Bis(2-chloroethyl)ether	50.0	34.20		ug/L		68	47 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-97161/2-A

Matrix: Water

Analysis Batch: 97546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	50.0	34.20		ug/L		68	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	50.57		ug/L		101	47 - 138
Bis(2-ethylhexyl) phthalate	50.0	50.57		ug/L		101	47 - 138
bis (2-chloroisopropyl) ether	50.0	34.94		ug/L		70	44 - 120
bis (2-chloroisopropyl) ether	50.0	34.94		ug/L		70	44 - 120
Butyl benzyl phthalate	50.0	49.18		ug/L		98	51 - 146
Butyl benzyl phthalate	50.0	49.18		ug/L		98	51 - 146
Carbazole	50.0	43.77		ug/L		88	54 - 123
Carbazole	50.0	43.77		ug/L		88	54 - 123
Chrysene	50.0	44.71		ug/L		89	55 - 120
Chrysene	50.0	44.71		ug/L		89	55 - 120
Cresols	100	69.86		ug/L		70	33 - 120
Dibenz(a,h)anthracene	50.0	44.86		ug/L		90	50 - 125
Dibenz(a,h)anthracene	50.0	44.86		ug/L		90	50 - 125
Dibenzofuran	50.0	40.51		ug/L		81	50 - 120
Dibenzofuran	50.0	40.51		ug/L		81	50 - 120
Diethyl phthalate	50.0	43.24		ug/L		86	54 - 128
Diethyl phthalate	50.0	43.24		ug/L		86	54 - 128
Dimethyl phthalate	50.0	42.79		ug/L		86	53 - 127
Dimethyl phthalate	50.0	42.79		ug/L		86	53 - 127
Di-n-butyl phthalate	50.0	48.64		ug/L		97	54 - 140
Di-n-butyl phthalate	50.0	48.64		ug/L		97	54 - 140
Di-n-octyl phthalate	50.0	46.81		ug/L		94	50 - 142
Di-n-octyl phthalate	50.0	46.81		ug/L		94	50 - 142
Fluoranthene	50.0	44.50		ug/L		89	56 - 120
Fluoranthene	50.0	44.50		ug/L		89	56 - 120
Fluorene	50.0	42.34		ug/L		85	52 - 120
Fluorene	50.0	42.34		ug/L		85	52 - 120
Hexachlorobenzene	50.0	45.32		ug/L		91	48 - 131
Hexachlorobenzene	50.0	45.32		ug/L		91	48 - 131
Hexachlorobutadiene	50.0	36.08		ug/L		72	28 - 120
Hexachlorobutadiene	50.0	36.08		ug/L		72	28 - 120
Hexachlorocyclopentadiene	50.0	30.38		ug/L		61	17 - 120
Hexachlorocyclopentadiene	50.0	30.38		ug/L		61	17 - 120
Hexachloroethane	50.0	32.40		ug/L		65	30 - 120
Hexachloroethane	50.0	32.40		ug/L		65	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	42.75		ug/L		85	54 - 125
Indeno[1,2,3-cd]pyrene	50.0	42.75		ug/L		85	54 - 125
Isophorone	50.0	44.23		ug/L		88	47 - 120
Isophorone	50.0	44.23		ug/L		88	47 - 120
Naphthalene	50.0	36.96		ug/L		74	37 - 120
Naphthalene	50.0	36.96		ug/L		74	37 - 120
Nitrobenzene	50.0	42.58		ug/L		85	36 - 120
Nitrobenzene	50.0	42.58		ug/L		85	36 - 120
N-Nitrosodi-n-propylamine	50.0	40.56		ug/L		81	51 - 120
N-Nitrosodi-n-propylamine	50.0	40.56		ug/L		81	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	43.90		ug/L		88	58 - 149

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-97161/2-A

Matrix: Water

Analysis Batch: 97546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Nitrosodiphenylamine(as diphenylamine)	50.0	43.90		ug/L		88	58 - 149
Pentachlorophenol	100	93.70		ug/L		94	21 - 150
Pentachlorophenol	100	93.70		ug/L		94	21 - 150
Phenanthrene	50.0	42.53		ug/L		85	56 - 120
Phenanthrene	50.0	42.53		ug/L		85	56 - 120
Phenol	50.0	18.19		ug/L		36	14 - 120
Phenol	50.0	18.19		ug/L		36	14 - 120
Pyrene	50.0	45.43		ug/L		91	53 - 129
Pyrene	50.0	45.43		ug/L		91	53 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-tri9rob o5henol (Surr)	/B		13 - 123
2,4,6-tri9rob o5henol (Surr)	/B		13 - 123
2-Fluoro9i5henyl (Surr)	Bp		20 - 123
2-Fluoro9i5henyl (Surr)	Bp		20 - 123
2-Fluoro5henol (Surr)	8p		13 - 123
2-Fluoro5henol (Surr)	8p		13 - 123
Nitro9enTene-dp (Surr)	BB		27 - 123
Nitro9enTene-dp (Surr)	BB		27 - 123
Phenol-dp (Surr)	2p		13 - 123
Phenol-dp (Surr)	2p		13 - 123
6er5henyl-d14 (Surr)	70		18 - 123
6er5henyl-d14 (Surr)	70		18 - 123

Lab Sample ID: LCS 490-97161/3-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-tri9rob o5henol (Surr)	01		13 - 123
2-Fluoro9i5henyl (Surr)	73		20 - 123
2-Fluoro5henol (Surr)	80		13 - 123
Nitro9enTene-dp (Surr)	B2		27 - 123
Phenol-dp (Surr)	28		13 - 123
6er5henyl-d14 (Surr)	/2		18 - 123

Lab Sample ID: LCS 490-97161/4-A

Matrix: Water

Analysis Batch: 97544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97161

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-tri9rob o5henol (Surr)	/0		13 - 123
2-Fluoro9i5henyl (Surr)	B0		20 - 123
2-Fluoro5henol (Surr)	87		13 - 123
Nitro9enTene-dp (Surr)	Bp		27 - 123
Phenol-dp (Surr)	2/		13 - 123

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-97161/4-A
Matrix: Water
Analysis Batch: 97544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97161

Surrogate	LCS %Recovery	LCS Qualifier	Limits
6er5henyl-d14 (Surr)	//		18 - 123

Lab Sample ID: MB 490-97561/1-A
Matrix: Water
Analysis Batch: 97651

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97561

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
1,2-Dichlorobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
1,3-Dichlorobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
1,4-Dichlorobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
1-Methylnaphthalene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4-Dichlorophenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4-Dimethylphenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4-Dinitrophenol	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,4-Dinitrotoluene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2,6-Dinitrotoluene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Chloronaphthalene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Chlorophenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Methylnaphthalene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Methylphenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Nitroaniline	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
2-Nitrophenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
3 & 4 Methylphenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
3-Nitroaniline	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Chloroaniline	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Nitroaniline	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
4-Nitrophenol	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Acenaphthylene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Acenaphthene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Benzo[a]anthracene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Benzo[a]pyrene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Benzo[b]fluoranthene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Benzo[k]fluoranthene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Anthracene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Bis(2-ethylhexyl) phthalate	22.80		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Butyl benzyl phthalate	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-97561/1-A

Matrix: Water

Analysis Batch: 97651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97561

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Chrysene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Cresols	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Dibenzofuran	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Diethyl phthalate	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Dimethyl phthalate	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Di-n-butyl phthalate	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Di-n-octyl phthalate	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Fluoranthene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Fluorene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Hexachlorobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Hexachlorobutadiene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Hexachloroethane	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Isophorone	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Naphthalene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Nitrobenzene	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Pentachlorophenol	ND		25.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Phenanthrene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1
Phenol	ND		10.0	ug/L		08/03/13 13:14	08/05/13 13:40	1
Pyrene	ND		2.00	ug/L		08/03/13 13:14	08/05/13 13:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-tri- <i>n</i> -propylphenol (Surr)	B1		13 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1
2-Fluoro-9-ethylphenyl (Surr)	pB		20 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1
2-Fluoro-5-phenol (Surr)	41		13 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1
Nitro-9-ethyl- <i>n</i> -decyl-dp (Surr)	p7		27 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1
Phenol-dp (Surr)	2/		13 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1
6-ethyl-5-phenyl-d14 (Surr)	74		18 - 123	3/ :38:18 18m4	3/ :3p:18 18m3	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-97752/19

Matrix: Water

Analysis Batch: 97752

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/05/13 19:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-tri- <i>n</i> -butyltoluene	/ 8		p3 - 1p3		3/ :3p:18 10pp	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

(Continued)

Lab Sample ID: LCS 490-97752/16

Matrix: Water

Analysis Batch: 97752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1020		ug/L		102	66 - 140
Surrogate	%Recovery	LCS Qualifier	LCS Qualifier	Limits			
<i>a,a,a-triisobutylbenzene</i>	78			<i>p3 - 1p3</i>			

Lab Sample ID: LCSD 490-97752/17

Matrix: Water

Analysis Batch: 97752

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	992.4		ug/L		99	66 - 140	3	42
Surrogate	%Recovery	LCSD Qualifier	LCSD Qualifier	Limits					
<i>a,a,a-triisobutylbenzene</i>	71			<i>p3 - 1p3</i>					

Lab Sample ID: MB 490-98238/23

Matrix: Water

Analysis Batch: 98238

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			08/07/13 20:47	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>a,a,a-triisobutylbenzene</i>	0B		<i>p3 - 1p3</i>				3/:37:18 23m7	1

Lab Sample ID: LCS 490-98238/9

Matrix: Water

Analysis Batch: 98238

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1043		ug/L		104	66 - 140
Surrogate	%Recovery	LCS Qualifier	LCS Qualifier	Limits			
<i>a,a,a-triisobutylbenzene</i>	7/			<i>p3 - 1p3</i>			

Lab Sample ID: LCSD 490-98238/10

Matrix: Water

Analysis Batch: 98238

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1079		ug/L		108	66 - 140	3	42
Surrogate	%Recovery	LCSD Qualifier	LCSD Qualifier	Limits					
<i>a,a,a-triisobutylbenzene</i>	77			<i>p3 - 1p3</i>					

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-97497/1-A
Matrix: Water
Analysis Batch: 97575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97497

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		08/03/13 09:25	08/03/13 20:14	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o</i> -6er5henyl (Surr)	74		p3 - 1p3			3/:38:18 30rBp	3/:38:18 23rM4	1

Lab Sample ID: LCS 490-97497/2-A
Matrix: Water
Analysis Batch: 97575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	824.1		ug/L		82	46 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -6er5henyl (Surr)	/ p		p3 - 1p3				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-97131/3
Matrix: Water
Analysis Batch: 97131

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			08/02/13 23:06	1

Lab Sample ID: LCS 490-97131/4
Matrix: Water
Analysis Batch: 97131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.90		mg/L		98	90 - 110

Lab Sample ID: LCSD 490-97131/5
Matrix: Water
Analysis Batch: 97131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.38		mg/L		97	90 - 110	1	20

Lab Sample ID: 490-32017-1 MS
Matrix: Water
Analysis Batch: 97131

Client Sample ID: OS10E
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	17.2		50.0	16.95	F	mg/L		-0.4	80 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 490-32017-H-12 MS

Matrix: Water

Analysis Batch: 97131

Client Sample ID: 490-32017-H-12 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	175		50.0	175.2	E F	mg/L		-0.6	80 - 120

Lab Sample ID: MB 490-97603/3

Matrix: Water

Analysis Batch: 97603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			08/03/13 16:58	1

Lab Sample ID: LCS 490-97603/4

Matrix: Water

Analysis Batch: 97603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.71		mg/L		97	90 - 110

Lab Sample ID: LCSD 490-97603/5

Matrix: Water

Analysis Batch: 97603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.09		mg/L		96	90 - 110	1	20

Lab Sample ID: 490-32342-C-1 MS

Matrix: Water

Analysis Batch: 97603

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	14.6		50.0	60.30		mg/L		91	80 - 120

Lab Sample ID: MB 490-98134/3

Matrix: Water

Analysis Batch: 98134

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			08/06/13 16:49	1

Lab Sample ID: LCS 490-98134/4

Matrix: Water

Analysis Batch: 98134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	50.87		mg/L		102	90 - 110

Lab Sample ID: LCSD 490-98134/5

Matrix: Water

Analysis Batch: 98134

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	50.39		mg/L		101	90 - 110	1	20

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Lab Sample ID: MB 490-98170/3
Matrix: Water
Analysis Batch: 98170

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			08/07/13 05:51	1

Lab Sample ID: LCS 490-98170/4
Matrix: Water
Analysis Batch: 98170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.72		mg/L		103	90 - 110

Lab Sample ID: LCSD 490-98170/5
Matrix: Water
Analysis Batch: 98170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	51.24		mg/L		102	90 - 110	1	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-97063/1-A
Matrix: Water
Analysis Batch: 98223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97063

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Chromium	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 16:40	1
Cobalt	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Copper	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Iron	ND		0.100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Lead	ND		0.00500	mg/L		08/01/13 14:00	08/06/13 16:40	1
Manganese	ND		0.0150	mg/L		08/01/13 14:00	08/06/13 16:40	1
Nickel	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Selenium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Thallium	ND		0.0100	mg/L		08/01/13 14:00	08/06/13 16:40	1
Vanadium	ND		0.0200	mg/L		08/01/13 14:00	08/06/13 16:40	1

Lab Sample ID: LCS 490-97063/2-A
Matrix: Water
Analysis Batch: 98223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.04510		mg/L		90	80 - 120
Chromium	0.200	0.1930		mg/L		97	80 - 120
Cobalt	0.500	0.4853		mg/L		97	80 - 120
Copper	0.250	0.2303		mg/L		92	80 - 120
Iron	1.00	0.9679		mg/L		97	80 - 120
Lead	0.0500	0.04860		mg/L		97	80 - 120
Manganese	0.500	0.4992		mg/L		100	80 - 120
Nickel	0.500	0.4951		mg/L		99	80 - 120
Selenium	0.0500	0.04790		mg/L		96	80 - 120
Thallium	0.0500	0.04310		mg/L		86	80 - 120
Vanadium	0.500	0.4857		mg/L		97	80 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-32017-1 MS

Matrix: Water

Analysis Batch: 98223

Client Sample ID: OS10E

Prep Type: Total/NA

Prep Batch: 97063

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	ND		0.0500	0.04810		mg/L		96		75 - 125
Chromium	ND		0.200	0.1939		mg/L		97		75 - 125
Cobalt	ND		0.500	0.4877		mg/L		98		75 - 125
Copper	ND		0.250	0.2414		mg/L		97		75 - 125
Iron	0.241		1.00	1.236		mg/L		99		75 - 125
Lead	ND		0.0500	0.05090		mg/L		102		75 - 125
Manganese	0.0599		0.500	0.5628		mg/L		101		75 - 125
Nickel	ND		0.500	0.4936		mg/L		99		75 - 125
Selenium	ND		0.0500	0.05300		mg/L		106		75 - 125
Thallium	ND		0.0500	0.04010		mg/L		80		75 - 125
Vanadium	ND		0.500	0.5003		mg/L		100		75 - 125

Lab Sample ID: 490-32017-1 MSD

Matrix: Water

Analysis Batch: 98223

Client Sample ID: OS10E

Prep Type: Total/NA

Prep Batch: 97063

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Arsenic	ND		0.0500	0.04590		mg/L		92		75 - 125	5	20
Chromium	ND		0.200	0.1931		mg/L		97		75 - 125	0	20
Cobalt	ND		0.500	0.4874		mg/L		97		75 - 125	0	20
Copper	ND		0.250	0.2377		mg/L		95		75 - 125	2	20
Iron	0.241		1.00	1.219		mg/L		98		75 - 125	1	20
Lead	ND		0.0500	0.05210		mg/L		104		75 - 125	2	20
Manganese	0.0599		0.500	0.5571		mg/L		99		75 - 125	1	20
Nickel	ND		0.500	0.4941		mg/L		99		75 - 125	0	20
Selenium	ND		0.0500	0.05020		mg/L		100		75 - 125	5	20
Thallium	ND		0.0500	0.04180		mg/L		84		75 - 125	4	20
Vanadium	ND		0.500	0.4857		mg/L		97		75 - 125	3	20

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

GC/MS VOA

Analysis Batch: 98164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	8260B	
490-32017-1 MS	OS10E	Total/NA	Water	8260B	
490-32017-1 MSD	OS10E	Total/NA	Water	8260B	
490-32017-2	OR10W	Total/NA	Water	8260B	
490-32017-3	OS5E	Total/NA	Water	8260B	
490-32017-4	OR5W	Total/NA	Water	8260B	
490-32017-5	OS5N	Total/NA	Water	8260B	
490-32017-6	OR3W	Total/NA	Water	8260B	
490-32017-7	OS5S	Total/NA	Water	8260B	
490-32017-8	OR3S	Total/NA	Water	8260B	
490-32017-9	OS10S	Total/NA	Water	8260B	
490-32017-10	Trip Blank-1	Total/NA	Water	8260B	
490-32017-12	OS15S	Total/NA	Water	8260B	
490-32017-13	MW-13S	Total/NA	Water	8260B	
490-32017-14	Dup-1	Total/NA	Water	8260B	
490-32017-15	OR-10S	Total/NA	Water	8260B	
LCS 490-98164/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-98164/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 98341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-9	OS10S	Total/NA	Water	8260B	
490-32017-11	OR5S	Total/NA	Water	8260B	
490-32017-13	MW-13S	Total/NA	Water	8260B	
490-32017-16	MW-13D	Total/NA	Water	8260B	
490-32413-B-9 MS	Matrix Spike	Total/NA	Water	8260B	
490-32413-C-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-98341/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-98341/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 98498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-14	Dup-1	Total/NA	Water	8260B	
490-32017-15	OR-10S	Total/NA	Water	8260B	
490-32376-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-32376-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-98498/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-98498/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 97161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	3510C	
490-32017-2	OR10W	Total/NA	Water	3510C	
490-32017-3	OS5E	Total/NA	Water	3510C	
490-32017-4	OR5W	Total/NA	Water	3510C	
490-32017-5	OS5N	Total/NA	Water	3510C	
490-32017-6	OR3W	Total/NA	Water	3510C	
490-32017-7	OS5S	Total/NA	Water	3510C	

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

GC/MS Semi VOA (Continued)

Prep Batch: 97161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-97161/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 490-97161/3-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 490-97161/4-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-97161/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 97544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-97161/2-A	Lab Control Sample	Total/NA	Water	8270D	97161
LCS 490-97161/3-A	Lab Control Sample	Total/NA	Water	8270D	97161
LCS 490-97161/4-A	Lab Control Sample	Total/NA	Water	8270D	97161
MB 490-97161/1-A	Method Blank	Total/NA	Water	8270D	97161

Analysis Batch: 97546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	8270D	97161
490-32017-2	OR10W	Total/NA	Water	8270D	97161
490-32017-3	OS5E	Total/NA	Water	8270D	97161
490-32017-4	OR5W	Total/NA	Water	8270D	97161
490-32017-5	OS5N	Total/NA	Water	8270D	97161
LCS 490-97161/2-A	Lab Control Sample	Total/NA	Water	8270D	97161
MB 490-97161/1-A	Method Blank	Total/NA	Water	8270D	97161

Prep Batch: 97561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-8	OR3S	Total/NA	Water	3510C	
490-32017-9	OS10S	Total/NA	Water	3510C	
490-32017-11	OR5S	Total/NA	Water	3510C	
490-32017-12	OS15S	Total/NA	Water	3510C	
490-32017-13	MW-13S	Total/NA	Water	3510C	
490-32017-14	Dup-1	Total/NA	Water	3510C	
490-32017-15	OR-10S	Total/NA	Water	3510C	
490-32017-16	MW-13D	Total/NA	Water	3510C	
MB 490-97561/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 97636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-6	OR3W	Total/NA	Water	8270D	97161
490-32017-7	OS5S	Total/NA	Water	8270D	97161

Analysis Batch: 97651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-8	OR3S	Total/NA	Water	8270D	97561
490-32017-9	OS10S	Total/NA	Water	8270D	97561
490-32017-11	OR5S	Total/NA	Water	8270D	97561
490-32017-12	OS15S	Total/NA	Water	8270D	97561
490-32017-13	MW-13S	Total/NA	Water	8270D	97561
490-32017-14	Dup-1	Total/NA	Water	8270D	97561
490-32017-15	OR-10S	Total/NA	Water	8270D	97561
490-32017-16	MW-13D	Total/NA	Water	8270D	97561
MB 490-97561/1-A	Method Blank	Total/NA	Water	8270D	97561

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

GC/MS Semi VOA (Continued)

Analysis Batch: 98080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-9	OS10S	Total/NA	Water	8270D	97561
490-32017-11	OR5S	Total/NA	Water	8270D	97561
490-32017-12	OS15S	Total/NA	Water	8270D	97561
490-32017-13	MW-13S	Total/NA	Water	8270D	97561
490-32017-14	Dup-1	Total/NA	Water	8270D	97561
490-32017-15	OR-10S	Total/NA	Water	8270D	97561

Analysis Batch: 98259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-14	Dup-1	Total/NA	Water	8270D	97561
490-32017-15	OR-10S	Total/NA	Water	8270D	97561

GC VOA

Analysis Batch: 97752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	8015C	
490-32017-2	OR10W	Total/NA	Water	8015C	
490-32017-3	OS5E	Total/NA	Water	8015C	
490-32017-4	OR5W	Total/NA	Water	8015C	
490-32017-5	OS5N	Total/NA	Water	8015C	
490-32017-6	OR3W	Total/NA	Water	8015C	
490-32017-7	OS5S	Total/NA	Water	8015C	
490-32017-8	OR3S	Total/NA	Water	8015C	
490-32017-9	OS10S	Total/NA	Water	8015C	
490-32017-11	OR5S	Total/NA	Water	8015C	
490-32017-12	OS15S	Total/NA	Water	8015C	
LCS 490-97752/16	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-97752/17	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-97752/19	Method Blank	Total/NA	Water	8015C	

Analysis Batch: 98238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-13	MW-13S	Total/NA	Water	8015C	
490-32017-14	Dup-1	Total/NA	Water	8015C	
490-32017-15	OR-10S	Total/NA	Water	8015C	
490-32017-16	MW-13D	Total/NA	Water	8015C	
LCS 490-98238/9	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-98238/10	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-98238/23	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 97497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	3510C	
490-32017-2	OR10W	Total/NA	Water	3510C	
490-32017-3	OS5E	Total/NA	Water	3510C	
490-32017-4	OR5W	Total/NA	Water	3510C	
490-32017-5	OS5N	Total/NA	Water	3510C	

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

GC Semi VOA (Continued)

Prep Batch: 97497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-6	OR3W	Total/NA	Water	3510C	
490-32017-7	OS5S	Total/NA	Water	3510C	
490-32017-8	OR3S	Total/NA	Water	3510C	
490-32017-9	OS10S	Total/NA	Water	3510C	
490-32017-11	OR5S	Total/NA	Water	3510C	
490-32017-12	OS15S	Total/NA	Water	3510C	
490-32017-13	MW-13S	Total/NA	Water	3510C	
490-32017-14	Dup-1	Total/NA	Water	3510C	
490-32017-15	OR-10S	Total/NA	Water	3510C	
490-32017-16	MW-13D	Total/NA	Water	3510C	
LCS 490-97497/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-97497/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 97575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	8015C	97497
490-32017-2	OR10W	Total/NA	Water	8015C	97497
490-32017-3	OS5E	Total/NA	Water	8015C	97497
490-32017-4	OR5W	Total/NA	Water	8015C	97497
490-32017-5	OS5N	Total/NA	Water	8015C	97497
490-32017-6	OR3W	Total/NA	Water	8015C	97497
490-32017-7	OS5S	Total/NA	Water	8015C	97497
490-32017-8	OR3S	Total/NA	Water	8015C	97497
490-32017-9	OS10S	Total/NA	Water	8015C	97497
490-32017-11	OR5S	Total/NA	Water	8015C	97497
490-32017-12	OS15S	Total/NA	Water	8015C	97497
490-32017-16	MW-13D	Total/NA	Water	8015C	97497
LCS 490-97497/2-A	Lab Control Sample	Total/NA	Water	8015C	97497
MB 490-97497/1-A	Method Blank	Total/NA	Water	8015C	97497

Analysis Batch: 97741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-13	MW-13S	Total/NA	Water	8015C	97497
490-32017-14	Dup-1	Total/NA	Water	8015C	97497
490-32017-15	OR-10S	Total/NA	Water	8015C	97497

HPLC/IC

Analysis Batch: 97131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	300.0	
490-32017-1 MS	OS10E	Total/NA	Water	300.0	
490-32017-3	OS5E	Total/NA	Water	300.0	
490-32017-5	OS5N	Total/NA	Water	300.0	
490-32017-16	MW-13D	Total/NA	Water	300.0	
490-32017-H-12 MS	490-32017-H-12 MS	Total/NA	Water	300.0	
LCS 490-97131/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-97131/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-97131/3	Method Blank	Total/NA	Water	300.0	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

HPLC/IC (Continued)

Analysis Batch: 97603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-2	OR10W	Total/NA	Water	300.0	
490-32017-4	OR5W	Total/NA	Water	300.0	
490-32017-7	OS5S	Total/NA	Water	300.0	
490-32017-8	OR3S	Total/NA	Water	300.0	
490-32017-9	OS10S	Total/NA	Water	300.0	
490-32017-11	OR5S	Total/NA	Water	300.0	
490-32017-12	OS15S	Total/NA	Water	300.0	
490-32017-13	MW-13S	Total/NA	Water	300.0	
490-32342-C-1 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 490-97603/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 490-97603/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-97603/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 98134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-14	Dup-1	Total/NA	Water	300.0	
LCS 490-98134/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 490-98134/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-98134/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 98170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-6	OR3W	Total/NA	Water	300.0	
490-32017-15	OR-10S	Total/NA	Water	300.0	
LCS 490-98170/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 490-98170/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-98170/3	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 97063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	3010A	
490-32017-1 MS	OS10E	Total/NA	Water	3010A	
490-32017-1 MSD	OS10E	Total/NA	Water	3010A	
490-32017-2	OR10W	Total/NA	Water	3010A	
490-32017-3	OS5E	Total/NA	Water	3010A	
490-32017-4	OR5W	Total/NA	Water	3010A	
490-32017-5	OS5N	Total/NA	Water	3010A	
490-32017-6	OR3W	Total/NA	Water	3010A	
490-32017-7	OS5S	Total/NA	Water	3010A	
490-32017-8	OR3S	Total/NA	Water	3010A	
490-32017-9	OS10S	Total/NA	Water	3010A	
490-32017-11	OR5S	Total/NA	Water	3010A	
490-32017-12	OS15S	Total/NA	Water	3010A	
490-32017-13	MW-13S	Total/NA	Water	3010A	
490-32017-14	Dup-1	Total/NA	Water	3010A	
490-32017-15	OR-10S	Total/NA	Water	3010A	
490-32017-16	MW-13D	Total/NA	Water	3010A	
LCS 490-97063/2-A	Lab Control Sample	Total/NA	Water	3010A	

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Metals (Continued)

Prep Batch: 97063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-97063/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 98223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-32017-1	OS10E	Total/NA	Water	6010C	97063
490-32017-1 MS	OS10E	Total/NA	Water	6010C	97063
490-32017-1 MSD	OS10E	Total/NA	Water	6010C	97063
490-32017-2	OR10W	Total/NA	Water	6010C	97063
490-32017-3	OS5E	Total/NA	Water	6010C	97063
490-32017-4	OR5W	Total/NA	Water	6010C	97063
490-32017-5	OS5N	Total/NA	Water	6010C	97063
490-32017-6	OR3W	Total/NA	Water	6010C	97063
490-32017-7	OS5S	Total/NA	Water	6010C	97063
490-32017-8	OR3S	Total/NA	Water	6010C	97063
490-32017-9	OS10S	Total/NA	Water	6010C	97063
490-32017-11	OR5S	Total/NA	Water	6010C	97063
490-32017-12	OS15S	Total/NA	Water	6010C	97063
490-32017-13	MW-13S	Total/NA	Water	6010C	97063
490-32017-14	Dup-1	Total/NA	Water	6010C	97063
490-32017-15	OR-10S	Total/NA	Water	6010C	97063
490-32017-16	MW-13D	Total/NA	Water	6010C	97063
LCS 490-97063/2-A	Lab Control Sample	Total/NA	Water	6010C	97063
MB 490-97063/1-A	Method Blank	Total/NA	Water	6010C	97063

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS10E

Lab Sample ID: 490-32017-1

Date Collected: 07/30/13 09:10

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 00:07	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97546	08/04/13 02:58	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/05/13 22:56	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 20:52	GMH	TAL NSH
Total/NA	Analysis	300.0		1	97131	08/03/13 00:09	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 16:47	KDJ	TAL NSH

Client Sample ID: OR10W

Lab Sample ID: 490-32017-2

Date Collected: 07/30/13 09:50

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 00:34	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97546	08/04/13 03:22	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/05/13 23:27	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 21:12	GMH	TAL NSH
Total/NA	Analysis	300.0		100	97603	08/03/13 20:47	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		100	98223	08/06/13 16:58	KDJ	TAL NSH

Client Sample ID: OS5E

Lab Sample ID: 490-32017-3

Date Collected: 07/30/13 10:15

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 01:01	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97546	08/04/13 03:46	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/05/13 23:57	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 21:30	GMH	TAL NSH
Total/NA	Analysis	300.0		1	97131	08/03/13 01:12	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:02	KDJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR5W

Lab Sample ID: 490-32017-4

Date Collected: 07/30/13 11:10

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 01:28	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97546	08/04/13 04:09	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 00:27	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 21:48	GMH	TAL NSH
Total/NA	Analysis	300.0		100	97603	08/03/13 21:06	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		100	98223	08/06/13 17:06	KDJ	TAL NSH

Client Sample ID: OS5N

Lab Sample ID: 490-32017-5

Date Collected: 07/30/13 11:34

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 01:55	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97546	08/04/13 04:33	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 00:57	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 22:08	GMH	TAL NSH
Total/NA	Analysis	300.0		1	97131	08/03/13 01:54	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:22	KDJ	TAL NSH

Client Sample ID: OR3W

Lab Sample ID: 490-32017-6

Date Collected: 07/30/13 12:25

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 02:22	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97636	08/05/13 03:45	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 01:28	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 22:28	GMH	TAL NSH
Total/NA	Analysis	300.0		200	98170	08/07/13 07:32	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		100	98223	08/06/13 17:26	KDJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OS5S

Lab Sample ID: 490-32017-7

Date Collected: 07/30/13 12:50

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 02:48	JJR	TAL NSH
Total/NA	Prep	3510C			97161	08/01/13 18:32	CLH	TAL NSH
Total/NA	Analysis	8270D		1	97636	08/05/13 04:08	KJP	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 01:58	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 22:47	GMH	TAL NSH
Total/NA	Analysis	300.0		20	97603	08/03/13 22:23	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		10	98223	08/06/13 17:29	KDJ	TAL NSH

Client Sample ID: OR3S

Lab Sample ID: 490-32017-8

Date Collected: 07/30/13 13:35

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 03:16	JJR	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 14:25	BES	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 02:28	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 23:07	GMH	TAL NSH
Total/NA	Analysis	300.0		20	97603	08/03/13 22:42	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		10	98223	08/06/13 17:33	KDJ	TAL NSH

Client Sample ID: OS10S

Lab Sample ID: 490-32017-9

Date Collected: 07/30/13 13:55

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 03:42	JJR	TAL NSH
Total/NA	Analysis	8260B		10	98341	08/07/13 21:59	JJR	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 14:48	BES	TAL NSH
Total/NA	Analysis	8270D		5	98080	08/06/13 14:14	BES	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 02:58	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 23:27	GMH	TAL NSH
Total/NA	Analysis	300.0		10	97603	08/03/13 23:01	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:37	KDJ	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: Trip Blank-1

Lab Sample ID: 490-32017-10

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/06/13 23:40	JJR	TAL NSH

Client Sample ID: OR5S

Lab Sample ID: 490-32017-11

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98341	08/07/13 17:56	JJR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 15:10	BES	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		10	98080	08/06/13 14:37	BES	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 03:29	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/03/13 23:46	GMH	TAL NSH
Total/NA	Analysis	300.0		5	97603	08/03/13 23:20	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:41	KDJ	TAL NSH

Client Sample ID: OS15S

Lab Sample ID: 490-32017-12

Date Collected: 07/30/13 14:40

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 04:36	JJR	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 15:33	BES	TAL NSH
Total/NA	Analysis	8270D		5	98080	08/06/13 15:00	BES	TAL NSH
Total/NA	Analysis	8015C		1	97752	08/06/13 03:59	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/04/13 00:05	GMH	TAL NSH
Total/NA	Analysis	300.0		5	97603	08/03/13 23:40	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:44	KDJ	TAL NSH

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 05:03	JJR	TAL NSH
Total/NA	Analysis	8260B		50	98341	08/07/13 22:26	JJR	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: MW-13S

Lab Sample ID: 490-32017-13

Date Collected: 07/30/13 14:30

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	97651	08/05/13 15:56	BES	TAL NSH
Total/NA	Analysis	8270D		10	98080	08/06/13 15:22	BES	TAL NSH
Total/NA	Analysis	8015C		1	98238	08/07/13 21:20	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		10	97741	08/05/13 21:20	JLF	TAL NSH
Total/NA	Analysis	300.0		10	97603	08/03/13 23:59	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:48	KDJ	TAL NSH

Client Sample ID: Dup-1

Lab Sample ID: 490-32017-14

Date Collected: 07/30/13 00:01

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 05:30	JJR	TAL NSH
Total/NA	Analysis	8260B		50	98498	08/08/13 02:02	JJR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 16:18	BES	TAL NSH
Total/NA	Analysis	8270D		10	98080	08/06/13 15:45	BES	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		50	98259	08/07/13 10:41	BES	TAL NSH
Total/NA	Analysis	8015C		1	98238	08/07/13 21:53	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		10	97741	08/05/13 21:39	JLF	TAL NSH
Total/NA	Analysis	300.0		10	98134	08/06/13 19:09	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 17:52	KDJ	TAL NSH

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98164	08/07/13 05:57	JJR	TAL NSH
Total/NA	Analysis	8260B		50	98498	08/08/13 02:29	JJR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 16:41	BES	TAL NSH
Total/NA	Analysis	8270D		10	98080	08/06/13 16:08	BES	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		50	98259	08/07/13 11:03	BES	TAL NSH
Total/NA	Analysis	8015C		1	98238	08/07/13 22:25	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		4	97741	08/05/13 21:57	JLF	TAL NSH
Total/NA	Analysis	300.0		500	98170	08/07/13 07:52	JHS	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Client Sample ID: OR-10S

Lab Sample ID: 490-32017-15

Date Collected: 07/30/13 15:45

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		10	98223	08/06/13 17:55	KDJ	TAL NSH

Client Sample ID: MW-13D

Lab Sample ID: 490-32017-16

Date Collected: 07/30/13 16:15

Matrix: Water

Date Received: 07/31/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	98341	08/07/13 18:23	JJR	TAL NSH
Total/NA	Prep	3510C			97561	08/03/13 13:14	SNR	TAL NSH
Total/NA	Analysis	8270D		1	97651	08/05/13 17:03	BES	TAL NSH
Total/NA	Analysis	8015C		1	98238	08/07/13 22:58	GWM	TAL NSH
Total/NA	Prep	3510C			97497	08/03/13 09:25	SNR	TAL NSH
Total/NA	Analysis	8015C		1	97575	08/04/13 01:21	GMH	TAL NSH
Total/NA	Analysis	300.0		1	97131	08/03/13 06:07	JHS	TAL NSH
Total/NA	Prep	3010A			97063	08/01/13 14:00	DBK	TAL NSH
Total/NA	Analysis	6010C		1	98223	08/06/13 18:12	KDJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP J13080225

TestAmerica Job ID: 490-32017-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
South Carolina	State Program	4	84009 (001)	02-28-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Cresols

South Carolina	State Program	4	84009 (002)	02-23-14
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Brown, Shali

From: Perkins, Jay C [Jay.Perkins@duke-energy.com]
Sent: Friday, August 02, 2013 9:30 AM
To: Brown, Shali
Cc: 'Clark, Andy M'
Subject: RE: Sample Login Confirmation for 490-32017, Pine Street MGP ----- no J#

The attached email below is in error. After talking with Troy again the 2 sample ID's in question should be listed as follows:

13:35 time – OR3S
 14:30 time – OR5S

Thanks
 Jay

From: Perkins, Jay C
Sent: Friday, August 02, 2013 9:35 AM
To: 'Clark, Andy M'
Cc: 'shali.brown@testamericainc.com'
Subject: RE: Sample Login Confirmation for 490-32017, Pine Street MGP ----- no J#

Troy with AMEC indicated the Sample ID's should be as follows:

The 12:50 sampling should be **OS5S** and the 14:13 sampling **OR5S**.

Thanks,
 Jay

From: Perkins, Jay C
Sent: Thursday, August 01, 2013 2:12 PM
To: Clark, Andy M
Cc: shali.brown@testamericainc.com
Subject: FW: Sample Login Confirmation for 490-32017, Pine Street MGP ----- no J#

Andy, I left a message with both you and Troy concerning identical sample ID's. The attached COC has 2 ID's that appear the same: **OR5S**. See Shali's note below too, it may help. I have placed a check mark by the Sample ID's that appear the same. Just let us know how to proceed.

Thanks,
 Jay

From: Brown, Shali [<mailto:shali.brown@testamericainc.com>]
Sent: Thursday, August 01, 2013 10:41 AM
To: Lab Customer and Operational Support@duke-energy.com
Cc: jay.perkins@duke-energy.com
Subject: Sample Login Confirmation for 490-32017, Pine Street MGP ----- no J#

Sample -8 and -12 have the same sample ID on the COC. Sample -8 had OR3S listed on the bottles. Please confirm the sample ID you would like used for each of these samples.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Sincerely,
Shali

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

SHALI BROWN

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.301.5031

Reference: [084239]
Attachments: 2

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.		
(2) Save the file & e-mail to:		labcustomer@duke-energy.com
Questions / Problems Call:		704-875-5245
Customer Information		
<u>Name</u>	<u>Office Phone</u>	<u>Cell Phone</u>
Andy Clark	704-357-5630	704-953-6833
<u>Fax</u>	<u>e-Mail Address</u>	
	andy.clark@amec.com	
Accounting Fields		
** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. **	<u>Field Type</u>	<u>Specific Field</u>
Sampling Information		
<u>Sampling Personnel / Contractor</u>	<u>Scheduled Sampling Date</u>	<u>Date Sample Kit Needed</u>
AMEC	7/29/2013	7/26/2013
Shipping Address for Kit		
<u>Name</u>	<u>Phone</u>	<u>Mail Code</u>
Troy Holzschuh	704-357-5616	704-307-1233
<u>Street Address - street address and town needed</u>	<u>State</u>	<u>Zip Code</u>
2801 Yorkmont Rd, Charlotte	NC	28208
Reporting		
<u>Report Due Date</u>	<u>Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard .pdf and excel</u>	
<u>Report To (e-Mail Address 1)</u>	<u>Report To (e-Mail Address 2)</u>	<u>Report to (e-Mail Address 3)</u>
andy.clark@amec.com	angela.adams@amec.com	
Project Specifics		
<u>Project Name</u>		<u>Program Type</u>
Spartanburg MGP		
<u>Site, Location or Station</u>	<u>State</u>	<u>Approximate Number of Days Sampling is Scheduled</u>
Pine Street, Spartanburg	SC	3
<u>Notes, Special Requests, Required Contract Lab to use, etc.</u> (LIMS Job Number-Duke Lab Provides)		
Order is for 38 wells sampled. Please deliver sample jars in coolers on Friday 7-26-13. AMEC will arrange pick up date/time with Candace Bonham.		
<u>Bottles</u>	<u>Matrix</u>	<u>Variables, Methods</u>
38	Water	VOCs - 8260B
38	Water	SVOCs - 8270D
38	Water	Sulfate - 9056
17	Water	TPH - 8015B (DRO GRO)
17	Water	Metals - 6010B or 6020
10	water	Trip Blank
26	water	Nitrate
26	water	Iron
26	water	Manganese
26	water	Alkalinity



COOLER RECEIPT FORM



Cooler Received/Opened On: 7/31/2013 @0830

1. Tracking # 1759 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 17610176

2. Temperature of rep. sample or temp blank when opened: 3.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ADH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ELA

I certify that I attached a label with the unique LIMS number to each container (initial) ELA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 7-31-13 ELA 7-31-13 ELA

COOLER RECEIPT FORM

Loc: 490
32017
#1
A

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1715 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EUA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EUA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EUA

I certify that I attached a label with the unique LIMS number to each container (initial) EUA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 7-31-13 EUA

COOLER RECEIPT I

Loc: 490
32017
#1
B

Cooler Received/Opened On: 7/31/2013 @0830

1. Tracking # 1840 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EUA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EUA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EUA

I certify that I attached a label with the unique LIMS number to each container (initial) EUA

21. Were there Non-Conformance issues at login? NO Was a NCM generated? NO # 7-31-13 EUA

COOLER RECEIPT FORM

Charlotte
Loc: 490
32017
#1
C

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1704 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ECA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ECA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ECA

I certify that I attached a label with the unique LIMS number to each container (initial) ECA

21. Were there Non-Conformance issues at login? NO Was a NCM generated? NO # 7-31-13 ECA

COOLER RECEIPT FORM

Loc: 490
32017
#1
D

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1748 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 10 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES... NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ECA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ECA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ECA

I certify that I attached a label with the unique LIMS number to each container (initial) ECA

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...# 7-31-13 ECA

COOLER RECEIPT FORM

Loc: 490
32017
#1
E

Cooler Received/Opened On: 7/31/2013 @0830

1. Tracking # 1760 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 17610176

2. Temperature of rep. sample or temp blank when opened: 2.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO NA

12. Did all container labels and tags agree with custody papers? YES...NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES...NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EJA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO NA

16. Was residual chlorine present? YES...NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EJA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO NA

18. Did you sign the custody papers in the appropriate place? YES...NO NA

19. Were correct containers used for the analysis requested? YES...NO NA

20. Was sufficient amount of sample sent in each container? YES...NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EJA

I certify that I attached a label with the unique LIMS number to each container (initial) EJA

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # 7-31-13 EJA

COOLER RECEIPT FORM

Charlotte
Loc: 490
32017
#1
F

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1884 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ELA

I certify that I attached a label with the unique LIMS number to each container (initial) ELA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 7-31-13 ELA

COOLER RECEIPT FORM

Charlotte
Loc: 490
32017
#2
A

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1781 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: -0.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ELA

7. Were custody seals on containers: YES NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ELA

I certify that I attached a label with the unique LIMS number to each container (initial) ELA

21. Were there Non-Conformance issues at login? YES... NO... Was a NCM generated? YES... NO...# 7-31-13 ELA

COOLER RECEIPT FORM

Charlotte
Loc: 490
32017
#2
B

Cooler Received/Opened On 7/31/2013 @ 0830

1. Tracking # 1873 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ELA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: ICE Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ELA

I certify that I attached a label with the unique LIMS number to each container (initial) ELA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# 7-31-13 ELA

COOLER RECEIPT FORM

Loc: 490
32017
#2
C

Cooler Received/Opened On: 7/31/2013 @0830

1. Tracking # 1862 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) ELA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ELA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ELA

I certify that I attached a label with the unique LIMS number to each container (initial) ELA

21. Were there Non-Conformance issues at login? YES NO 7-31-13 ELA Was a NCM generated? YES NO 7-31-13 ELA

Chain of Custody Record

TestAmerica Laboratory location: Nashville
 Regulatory program: DW NPDES RCRA Other

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 COC No: 59226
 2 of 2000

Company Name: <u>Duke Energy AMEC</u> Address: <u>2801 Yorkmont Rd</u> City/State/Zip: <u>Charlotte, NC 28208</u> Phone: <u>704-357-8600</u> Project Name: <u>Pine Street</u> Project Number: <u>Spartanburg, SC</u> PO# <u>510194A</u>		Client Contact: <u>Andy Clark</u> Client Project Manager: <u>Andy Clark</u> Telephone: <u>704-387-8600</u> Email: <u>andrewclark@amec.com</u>		Site Contact: <u>Troy Holzschuh</u> Telephone: <u>704-307-1233</u> Analysis Turnaround Time (in BUSINESS DAYS) <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: <u>Troy Holzschuh</u> Telephone:		TestAmerica Laboratories, Inc. COC No: <u>59226</u> 2 of 2000	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown Special Instructions/QC Requirements & Comments:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For: _____ Months		For lab use only <input type="checkbox"/> Lab pick-up <input type="checkbox"/> Lab sampling <input type="checkbox"/> Job/SD/CLC		Sample Specific Notes / Special Instructions:		Date Time: <u>7/30/13 17:30</u>	
Metals: Vanadium, Arsenic, Chromium, Selenium, Copper, Nickel, Lead, Iron, Manganese, Cobalt									
Relinquished by: <u>A Bonham</u> Relinquished by: <u>A Bonham</u>		Company: <u>AMEC</u> Company: <u>TA</u>		Date Time: <u>7/30/13 17:30</u> Date Time: <u>7/30/13 17:30</u>		Received by: <u>A Bonham</u> Received by: <u>A Bonham</u>		Company: <u>AMEC</u> Company: <u>TA</u>	
Relinquished by: <u>A Bonham</u>		Company: <u>AMEC</u>		Date Time: <u>7/30/13 17:30</u>		Received in Laboratory by: <u>A Bonham</u>		Company: <u>TA</u>	
Relinquished by: <u>A Bonham</u>		Company: <u>AMEC</u>		Date Time: <u>7/30/13 17:30</u>		Received in Laboratory by: <u>A Bonham</u>		Company: <u>TA</u>	

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives						Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses	Loc: 490 32017	
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					Unpres
OR55	7-30-13	1430	X				X	X	X	X	X	X	X		VOC		
OS155		1440	X				X	X	X	X	X	X	X		SUOC		
OS205			X				X	X	X	X	X	X	X		ORO		
MW-135		1430	X				X	X	X	X	X	X	X		GRO		
Dup-1			X				X	X	X	X	X	X	X		Sulfate		
DR-105		1545	X				X	X	X	X	X	X	X		Metals (see note)		
MW-130		1615	X				X	X	X	X	X	X	X				

Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-32017-1

SDG Number:

Login Number: 32017

List Number: 1

Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13090292

Project Name:

Customer Name(s): AMEC

Customer Address:

Lab Contact: Jason C Perkins Phone: 980-875-5348

Report Authorized By:
(Signature)


Jason C Perkins

Digitally signed by jay perkins
DN: cn=jay perkins, o=Analytical
Lab, ou, email=jay.perkins@duke-
energy.com, c=US
Date: 2013.10.03 10:02:07 -04'00'

Date:

10/2/2013

Program Comments:

Please contact the Program Manager (Jason C Perkins) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013022993	SPARTANBURG	12-Sep-13 7:00 AM	AMEC	490-35394 Trip Blank-4301753
2013022994	SPARTANBURG	12-Sep-13 8:10 AM	AMEC	490-35394 MW-13 ISOC
2013022995	SPARTANBURG	12-Sep-13 9:10 AM	AMEC	490-35394 OR-10W
2013022996	SPARTANBURG	12-Sep-13 10:10 AM	AMEC	490-35394 OR-5W
2013022997	SPARTANBURG	12-Sep-13 10:50 AM	AMEC	490-35394 OR-3W
2013022998	SPARTANBURG	12-Sep-13 11:35 AM	AMEC	490-35394 OR-3S
2013022999	SPARTANBURG	12-Sep-13 12:15 PM	AMEC	490-35394 OR-5S
2013023000	SPARTANBURG	12-Sep-13 1:15 PM	AMEC	490-35394 OR-10S
2013023001	SPARTANBURG	12-Sep-13 2:00 PM	AMEC	490-35394 OS-25S
2013023002	SPARTANBURG	12-Sep-13 2:45 PM	AMEC	490-35394 OS-20S
2013023003	SPARTANBURG	12-Sep-13 3:30 PM	AMEC	490-35394 OS-15S
2013023004	SPARTANBURG	12-Sep-13 4:20 PM	AMEC	490-35394 OS-10S
2013023005	SPARTANBURG	12-Sep-13 5:00 PM	AMEC	490-35394 OS-5S
2013023006	SPARTANBURG	12-Sep-13 5:30 PM	AMEC	490-35394 OS-5N
2013023007	SPARTANBURG	12-Sep-13 6:05 PM	AMEC	490-35394 OS-5E
2013023008	SPARTANBURG	12-Sep-13 6:35 PM	AMEC	490-35394 OS-10e

16 Total Samples

Technical Validation Review

Checklist:

- COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures). Yes No
- All Results are less than the laboratory reporting limits. Yes No
- All laboratory QA/QC requirements are acceptable. Yes No

Report Sections Included:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Job Summary Report | <input checked="" type="checkbox"/> Sub-contracted Laboratory Results |
| <input checked="" type="checkbox"/> Sample Identification | <input type="checkbox"/> Customer Specific Data Sheets, Reports, & Documentation |
| <input checked="" type="checkbox"/> Technical Validation of Data Package | <input type="checkbox"/> Customer Database Entries |
| <input checked="" type="checkbox"/> Analytical Laboratory Certificate of Analysis | <input checked="" type="checkbox"/> Chain of Custody |
| <input type="checkbox"/> Analytical Laboratory QC Report | <input checked="" type="checkbox"/> Electronic Data Deliverable (EDD) Sent Separately |

Reviewed By: DBA Account

Date: 10/2/2013

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13090292

Site: 490-35394 Trip Blank-4301753

Collection Date: 12-Sep-13 7:00 AM

Sample #: 2013022993

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 MW-13 ISOC

Collection Date: 12-Sep-13 8:10 AM

Sample #: 2013022994

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

SEMIVOLATILES - (Analysis Performed by Test America)

Naphthalene	Complete					Vendor Method		V_T. America
-------------	----------	--	--	--	--	---------------	--	--------------

TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)

GROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

DROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

VOLATILES - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

Site: 490-35394 OR-10W

Collection Date: 12-Sep-13 9:10 AM

Sample #: 2013022995

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

SEMIVOLATILES - (Analysis Performed by Test America)

Naphthalene	Complete					Vendor Method		V_T. America
-------------	----------	--	--	--	--	---------------	--	--------------

TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)

GROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

DROs	Complete					Vendor Method		V_T. America
------	----------	--	--	--	--	---------------	--	--------------

VOLATILES - (Analysis Performed by Test America)

Vendor Parameter	Complete					Vendor Method		V_T. America
------------------	----------	--	--	--	--	---------------	--	--------------

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J13090292

Site: 490-35394 OR-5W
Collection Date: 12-Sep-13 10:10 AM

Sample #: 2013022996
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OR-3W
Collection Date: 12-Sep-13 10:50 AM

Sample #: 2013022997
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OR-3S
Collection Date: 12-Sep-13 11:35 AM

Sample #: 2013022998
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13090292

Site: 490-35394 OR-3S
Collection Date: 12-Sep-13 11:35 AM

Sample #: 2013022998
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OR-5S
Collection Date: 12-Sep-13 12:15 PM

Sample #: 2013022999
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OR-10S
Collection Date: 12-Sep-13 1:15 PM

Sample #: 2013023000
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13090292

Site: 490-35394 OR-10S

Collection Date: 12-Sep-13 1:15 PM

Sample #: 2013023000

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-25S

Collection Date: 12-Sep-13 2:00 PM

Sample #: 2013023001

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-20S

Collection Date: 12-Sep-13 2:45 PM

Sample #: 2013023002

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America

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Order # J13090292

Site: 490-35394 OS-20S

Collection Date: 12-Sep-13 2:45 PM

Sample #: 2013023002

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-15S

Collection Date: 12-Sep-13 3:30 PM

Sample #: 2013023003

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-10S

Collection Date: 12-Sep-13 4:20 PM

Sample #: 2013023004

Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America

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Order # J13090292

Site: 490-35394 OS-10S
Collection Date: 12-Sep-13 4:20 PM

Sample #: 2013023004
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-5S
Collection Date: 12-Sep-13 5:00 PM

Sample #: 2013023005
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-5N
Collection Date: 12-Sep-13 5:30 PM

Sample #: 2013023006
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

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Order # J13090292

Site: 490-35394 OS-5E
Collection Date: 12-Sep-13 6:05 PM

Sample #: 2013023007
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
DROs	Complete					Vendor Method		V_T. America
GROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

Site: 490-35394 OS-10e
Collection Date: 12-Sep-13 6:35 PM

Sample #: 2013023008
Matrix: OTHER

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>DIONEX ANIONS BY VENDOR - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>METALS ANALYSIS BY VENDOR LAB - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America
<u>SEMIVOLATILES - (Analysis Performed by Test America)</u>								
Naphthalene	Complete					Vendor Method		V_T. America
<u>TOTAL PETROLEUM HYDROCARBONS - (Analysis Performed by Test America)</u>								
GROs	Complete					Vendor Method		V_T. America
DROs	Complete					Vendor Method		V_T. America
<u>VOLATILES - (Analysis Performed by Test America)</u>								
Vendor Parameter	Complete					Vendor Method		V_T. America

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-35394-1
Client Project/Site: Pine Street MGP (Spartanburg) J13090292

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
9/30/2013 3:30:27 PM

Shali Brown, Project Manager I
(615)301-5031
shali.brown@testamericainc.com



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-35394-1	Trip Blank - 4301753	Water	09/12/13 07:00	09/14/13 10:00
490-35394-2	MW-13 ISOC	Water	09/12/13 08:10	09/14/13 10:00
490-35394-3	OR-10W	Water	09/12/13 09:10	09/14/13 10:00
490-35394-4	OR-5W	Water	09/12/13 10:10	09/14/13 10:00
490-35394-5	OR-3W	Water	09/12/13 10:50	09/14/13 10:00
490-35394-6	OR-3S	Water	09/12/13 11:35	09/14/13 10:00
490-35394-7	OR-5S	Water	09/12/13 12:15	09/14/13 10:00
490-35394-8	OR-10S	Water	09/12/13 13:15	09/14/13 10:00
490-35394-9	OS-25S	Water	09/12/13 14:00	09/14/13 10:00
490-35394-10	OS-20S	Water	09/12/13 14:45	09/14/13 10:00
490-35394-11	OS-15S	Water	09/12/13 15:30	09/14/13 10:00
490-35394-12	OS-10S	Water	09/12/13 16:20	09/14/13 10:00
490-35394-13	OS-5S	Water	09/12/13 17:00	09/14/13 10:00
490-35394-14	OS-5N	Water	09/12/13 17:30	09/14/13 10:00
490-35394-15	OS-5E	Water	09/12/13 18:05	09/14/13 10:00
490-35394-16	OS-10E	Water	09/12/13 18:35	09/14/13 10:00



Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Job ID: 490-35394-1**Laboratory: TestAmerica Nashville**

Narrative

CASE NARRATIVE**Client: Duke Energy Corporation****Project: Pine Street MGP (Spartanburg) J13090292****Report Number: 490-35394-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 9/14/2013 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.2° C, 0.2° C, 0.2° C, 0.4° C, 0.6° C and 1.2° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Trip Blank - 4301753 (490-35394-1), MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/24/2013 and 09/26/2013.

1,2-Dibromo-3-Chloropropane failed the recovery criteria high for LCS 490-109436/3. 1,2-Dibromo-3-Chloropropane and Dichlorodifluoromethane failed the recovery criteria high for LCS 490-109825/3. 1,2-Dibromo-3-Chloropropane failed the recovery criteria high for LCSD 490-109436/4. 1,2-Dibromo-3-Chloropropane failed the recovery criteria high for LCSD 490-109825/4. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 109825.

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Job ID: 490-35394-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Samples OR-10S (490-35394-8)[50X], OS-25S (490-35394-9)[10X], OS-20S (490-35394-10)[20X] and OS-10E (490-35394-16)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/18/2013 and analyzed on 09/18/2013 and 09/19/2013.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 107928.

Samples OR-10S (490-35394-8)[20X], OS-25S (490-35394-9)[10X], OS-20S (490-35394-10)[10X] and OS-10E (490-35394-16)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOCs analysis. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 09/16/2013 and 09/17/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 107436.

No difficulties were encountered during the GRO analysis. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 09/18/2013 and analyzed on 09/19/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 108013 and 108024.

Samples OR-10S (490-35394-8)[5X], OS-25S (490-35394-9)[4X] and OS-20S (490-35394-10)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analysis. All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared and analyzed on 09/17/2013 and

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Job ID: 490-35394-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

09/18/2013.

The following sample(s) was diluted due to the abundance of analytes: Na and S OR-3W (490-35394-5), OR-5W (490-35394-4). Elevated reporting limits (RLs) are provided.

The following sample(s) was diluted due to the abundance of analytes: yttrium OR-10S (490-35394-8), OS-10S (490-35394-12), OS-15S (490-35394-11). Elevated reporting limits (RLs) are provided.

Samples MW-13 ISOC (490-35394-2)[2X], OR-5W (490-35394-4)[10X], OR-3W (490-35394-5)[10X], OR-10S (490-35394-8)[100X], OS-15S (490-35394-11)[100X] and OS-10S (490-35394-12)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the metals analysis. All other quality control parameters were within the acceptance limits.

ANIONS

Samples MW-13 ISOC (490-35394-2), OR-10W (490-35394-3), OR-5W (490-35394-4), OR-3W (490-35394-5), OR-3S (490-35394-6), OR-5S (490-35394-7), OR-10S (490-35394-8), OS-25S (490-35394-9), OS-20S (490-35394-10), OS-15S (490-35394-11), OS-10S (490-35394-12), OS-5S (490-35394-13), OS-5N (490-35394-14), OS-5E (490-35394-15) and OS-10E (490-35394-16) were analyzed for anions in accordance with SW-846 Method 9056. The samples were analyzed on 09/24/2013, 09/26/2013 and 09/27/2013.

Samples MW-13 ISOC (490-35394-2)[100X], OR-10W (490-35394-3)[100X], OR-5W (490-35394-4)[200X], OR-3W (490-35394-5)[500X], OR-3S (490-35394-6)[50X], OR-5S (490-35394-7)[10X], OR-10S (490-35394-8)[200X], OS-25S (490-35394-9)[2X], OS-20S (490-35394-10)[5X], OS-15S (490-35394-11)[500X], OS-10S (490-35394-12)[100X] and OS-5S (490-35394-13)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis. All quality control parameters were within the acceptance limits.

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: Trip Blank - 4301753

Lab Sample ID: 490-35394-1

Date Collected: 09/12/13 07:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 17:05	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 17:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 17:05	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 17:05	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 17:05	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 17:05	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 17:05	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 17:05	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 17:05	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 17:05	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 17:05	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 17:05	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 17:05	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 17:05	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 17:05	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 17:05	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 17:05	1
2-Hexanone	ND		5.00	ug/L			09/24/13 17:05	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 17:05	1
Acetone	ND		5.00	ug/L			09/24/13 17:05	1
Benzene	ND		1.00	ug/L			09/24/13 17:05	1
Bromobenzene	ND		1.00	ug/L			09/24/13 17:05	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 17:05	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 17:05	1
Bromoform	ND		1.00	ug/L			09/24/13 17:05	1
Bromomethane	ND		1.00	ug/L			09/24/13 17:05	1
Carbon disulfide	ND		1.00	ug/L			09/24/13 17:05	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 17:05	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 17:05	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 17:05	1
Chloroethane	ND		1.00	ug/L			09/24/13 17:05	1
Chloroform	ND		1.00	ug/L			09/24/13 17:05	1
Chloromethane	ND		1.00	ug/L			09/24/13 17:05	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 17:05	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 17:05	1
Dibromomethane	ND		1.00	ug/L			09/24/13 17:05	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 17:05	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 17:05	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 17:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: Trip Blank - 4301753

Lab Sample ID: 490-35394-1

Date Collected: 09/12/13 07:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 17:05	1
Naphthalene	ND		5.00	ug/L			09/24/13 17:05	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 17:05	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
Styrene	ND		1.00	ug/L			09/24/13 17:05	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 17:05	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 17:05	1
Toluene	ND		1.00	ug/L			09/24/13 17:05	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 17:05	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 17:05	1
Trichloroethene	ND		1.00	ug/L			09/24/13 17:05	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 17:05	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 17:05	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130				09/24/13 17:05	1
4-Bromofluorobenzene (Surr)	96		70 - 130				09/24/13 17:05	1
Dibromofluoromethane (Surr)	104		70 - 130				09/24/13 17:05	1
Toluene-d8 (Surr)	97		70 - 130				09/24/13 17:05	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-35394-2

Date Collected: 09/12/13 08:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 17:33	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 17:33	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 17:33	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 17:33	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 17:33	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 17:33	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 17:33	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 17:33	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 17:33	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
1,2,4-Trimethylbenzene	5.73		1.00	ug/L			09/24/13 17:33	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 17:33	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 17:33	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 17:33	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 17:33	1
1,3,5-Trimethylbenzene	3.19		1.00	ug/L			09/24/13 17:33	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 17:33	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 17:33	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 17:33	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 17:33	1
2-Hexanone	ND		5.00	ug/L			09/24/13 17:33	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 17:33	1
Acetone	ND		5.00	ug/L			09/24/13 17:33	1
Benzene	6.62		1.00	ug/L			09/24/13 17:33	1
Bromobenzene	ND		1.00	ug/L			09/24/13 17:33	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 17:33	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 17:33	1
Bromoform	ND		1.00	ug/L			09/24/13 17:33	1
Bromomethane	ND		1.00	ug/L			09/24/13 17:33	1
Carbon disulfide	4.26		1.00	ug/L			09/24/13 17:33	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 17:33	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 17:33	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 17:33	1
Chloroethane	ND		1.00	ug/L			09/24/13 17:33	1
Chloroform	2.84		1.00	ug/L			09/24/13 17:33	1
Chloromethane	ND		1.00	ug/L			09/24/13 17:33	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 17:33	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 17:33	1
Dibromomethane	ND		1.00	ug/L			09/24/13 17:33	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 17:33	1
Ethylbenzene	8.97		1.00	ug/L			09/24/13 17:33	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 17:33	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 17:33	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 17:33	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-35394-2

Date Collected: 09/12/13 08:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 17:33	1
Naphthalene	45.2		5.00	ug/L			09/24/13 17:33	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 17:33	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 17:33	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 17:33	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 17:33	1
Styrene	ND		1.00	ug/L			09/24/13 17:33	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 17:33	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 17:33	1
Toluene	3.31		1.00	ug/L			09/24/13 17:33	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 17:33	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 17:33	1
Trichloroethene	ND		1.00	ug/L			09/24/13 17:33	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 17:33	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 17:33	1
Xylenes, Total	10.9		2.00	ug/L			09/24/13 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/24/13 17:33	1
4-Bromofluorobenzene (Surr)	97		70 - 130		09/24/13 17:33	1
Dibromofluoromethane (Surr)	107		70 - 130		09/24/13 17:33	1
Toluene-d8 (Surr)	99		70 - 130		09/24/13 17:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
1,2-Dichlorobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
1,3-Dichlorobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
1,4-Dichlorobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
1-Methylnaphthalene	8.15		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4,5-Trichlorophenol	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4,6-Trichlorophenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4-Dichlorophenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4-Dimethylphenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4-Dinitrophenol	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,4-Dinitrotoluene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2,6-Dinitrotoluene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Chloronaphthalene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Chlorophenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Methylnaphthalene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Methylphenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Nitroaniline	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
2-Nitrophenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
3,3'-Dichlorobenzidine	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
3 & 4 Methylphenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
3-Nitroaniline	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
4,6-Dinitro-2-methylphenol	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
4-Bromophenyl phenyl ether	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
4-Chloro-3-methylphenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
4-Chlorophenyl phenyl ether	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-35394-2

Date Collected: 09/12/13 08:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
4-Nitroaniline	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
4-Nitrophenol	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
Acenaphthylene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Acenaphthene	4.63		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Benzo[a]anthracene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Benzo[a]pyrene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Benzo[b]fluoranthene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Benzo[g,h,i]perylene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Benzo[k]fluoranthene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Anthracene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Bis(2-chloroethoxy)methane	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Bis(2-chloroethyl)ether	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Bis(2-ethylhexyl) phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
bis (2-chloroisopropyl) ether	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Butyl benzyl phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Carbazole	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Chrysene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Cresols	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Dibenz(a,h)anthracene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Dibenzofuran	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Diethyl phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Dimethyl phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Di-n-butyl phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Di-n-octyl phthalate	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Fluoranthene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Fluorene	3.19		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Hexachlorobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Hexachlorobutadiene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Hexachlorocyclopentadiene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Hexachloroethane	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Indeno[1,2,3-cd]pyrene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Isophorone	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Naphthalene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Nitrobenzene	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
N-Nitrosodi-n-propylamine	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Pentachlorophenol	ND		26.9	ug/L		09/18/13 10:05	09/18/13 18:37	1
Phenanthrene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Phenol	ND		10.8	ug/L		09/18/13 10:05	09/18/13 18:37	1
Pyrene	ND		2.15	ug/L		09/18/13 10:05	09/18/13 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		10 - 120			09/18/13 10:05	09/18/13 18:37	1
2-Fluorobiphenyl (Surr)	63		29 - 120			09/18/13 10:05	09/18/13 18:37	1
2-Fluorophenol (Surr)	34		10 - 120			09/18/13 10:05	09/18/13 18:37	1
Nitrobenzene-d5 (Surr)	61		27 - 120			09/18/13 10:05	09/18/13 18:37	1
Phenol-d5 (Surr)	24		10 - 120			09/18/13 10:05	09/18/13 18:37	1
Terphenyl-d14 (Surr)	71		13 - 120			09/18/13 10:05	09/18/13 18:37	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-35394-2

Date Collected: 09/12/13 08:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 21:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	68		50 - 150				09/16/13 21:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1190		93.5	ug/L		09/18/13 12:19	09/19/13 00:41	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	95		50 - 150			09/18/13 12:19	09/19/13 00:41	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	3110		100	mg/L			09/24/13 15:21	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.77		0.100	mg/L		09/17/13 07:49	09/17/13 18:06	1
Arsenic	0.208		0.0100	mg/L		09/17/13 07:49	09/17/13 18:06	1
Chromium	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:06	1
Copper	0.0159		0.0100	mg/L		09/17/13 07:49	09/17/13 18:06	1
Iron	18.7		0.100	mg/L		09/17/13 07:49	09/17/13 18:06	1
Lead	0.0359		0.00500	mg/L		09/17/13 07:49	09/17/13 18:06	1
Manganese	11.5		0.0300	mg/L		09/17/13 07:49	09/18/13 22:43	2
Selenium	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:06	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10W

Lab Sample ID: 490-35394-3

Date Collected: 09/12/13 09:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:00	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:00	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 18:00	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 18:00	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 18:00	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 18:00	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 18:00	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 18:00	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 18:00	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 18:00	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 18:00	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:00	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 18:00	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:00	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 18:00	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:00	1
2-Hexanone	ND		5.00	ug/L			09/24/13 18:00	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 18:00	1
Acetone	41.9		5.00	ug/L			09/24/13 18:00	1
Benzene	ND		1.00	ug/L			09/24/13 18:00	1
Bromobenzene	ND		1.00	ug/L			09/24/13 18:00	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 18:00	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 18:00	1
Bromoform	ND		1.00	ug/L			09/24/13 18:00	1
Bromomethane	ND		1.00	ug/L			09/24/13 18:00	1
Carbon disulfide	1.68		1.00	ug/L			09/24/13 18:00	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 18:00	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 18:00	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 18:00	1
Chloroethane	ND		1.00	ug/L			09/24/13 18:00	1
Chloroform	ND		1.00	ug/L			09/24/13 18:00	1
Chloromethane	4.86		1.00	ug/L			09/24/13 18:00	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:00	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:00	1
Dibromomethane	ND		1.00	ug/L			09/24/13 18:00	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 18:00	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 18:00	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 18:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10W

Lab Sample ID: 490-35394-3

Date Collected: 09/12/13 09:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 18:00	1
Naphthalene	ND		5.00	ug/L			09/24/13 18:00	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 18:00	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
Styrene	ND		1.00	ug/L			09/24/13 18:00	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 18:00	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 18:00	1
Toluene	ND		1.00	ug/L			09/24/13 18:00	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:00	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:00	1
Trichloroethene	ND		1.00	ug/L			09/24/13 18:00	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 18:00	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 18:00	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/24/13 18:00	1
4-Bromofluorobenzene (Surr)	93		70 - 130		09/24/13 18:00	1
Dibromofluoromethane (Surr)	103		70 - 130		09/24/13 18:00	1
Toluene-d8 (Surr)	83		70 - 130		09/24/13 18:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
1,2-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
1,3-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
1,4-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
1-Methylnaphthalene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4,5-Trichlorophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4-Dichlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4-Dimethylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4-Dinitrophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,4-Dinitrotoluene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2,6-Dinitrotoluene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Chloronaphthalene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Chlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Methylnaphthalene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
2-Nitrophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
3 & 4 Methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
3-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10W

Lab Sample ID: 490-35394-3

Date Collected: 09/12/13 09:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
4-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
4-Nitrophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
Acenaphthylene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Acenaphthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Benzo[a]anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Benzo[a]pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Benzo[b]fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Benzo[k]fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Bis(2-ethylhexyl) phthalate	32.8		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Butyl benzyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Carbazole	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Chrysene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Cresols	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Dibenzofuran	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Diethyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Dimethyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Di-n-butyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Di-n-octyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Fluorene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Hexachlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Hexachlorobutadiene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Hexachloroethane	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Isophorone	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Naphthalene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Nitrobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Pentachlorophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:00	1
Phenanthrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Phenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:00	1
Pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		10 - 120			09/18/13 10:05	09/18/13 19:00	1
2-Fluorobiphenyl (Surr)	70		29 - 120			09/18/13 10:05	09/18/13 19:00	1
2-Fluorophenol (Surr)	45		10 - 120			09/18/13 10:05	09/18/13 19:00	1
Nitrobenzene-d5 (Surr)	71		27 - 120			09/18/13 10:05	09/18/13 19:00	1
Phenol-d5 (Surr)	30		10 - 120			09/18/13 10:05	09/18/13 19:00	1
Terphenyl-d14 (Surr)	91		13 - 120			09/18/13 10:05	09/18/13 19:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10W

Lab Sample ID: 490-35394-3

Date Collected: 09/12/13 09:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 21:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	65		50 - 150				09/16/13 21:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	122		100	ug/L		09/18/13 12:19	09/19/13 00:56	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	128		50 - 150			09/18/13 12:19	09/19/13 00:56	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7540		100	mg/L			09/24/13 15:40	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7.82		0.100	mg/L		09/17/13 07:49	09/17/13 18:09	1
Arsenic	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:09	1
Chromium	0.0585		0.00500	mg/L		09/17/13 07:49	09/17/13 18:09	1
Copper	0.107		0.0100	mg/L		09/17/13 07:49	09/17/13 18:09	1
Iron	3.83		0.100	mg/L		09/17/13 07:49	09/17/13 18:09	1
Lead	0.0163		0.00500	mg/L		09/17/13 07:49	09/17/13 18:09	1
Manganese	1.05		0.0150	mg/L		09/17/13 07:49	09/17/13 18:09	1
Selenium	0.0133		0.0100	mg/L		09/17/13 07:49	09/17/13 18:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5W

Lab Sample ID: 490-35394-4

Date Collected: 09/12/13 10:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:28	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 18:28	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:28	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 18:28	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 18:28	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 18:28	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 18:28	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 18:28	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 18:28	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 18:28	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 18:28	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 18:28	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:28	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 18:28	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:28	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 18:28	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:28	1
2-Hexanone	ND		5.00	ug/L			09/24/13 18:28	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 18:28	1
Acetone	91.5		5.00	ug/L			09/24/13 18:28	1
Benzene	ND		1.00	ug/L			09/24/13 18:28	1
Bromobenzene	ND		1.00	ug/L			09/24/13 18:28	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 18:28	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 18:28	1
Bromoform	ND		1.00	ug/L			09/24/13 18:28	1
Bromomethane	ND		1.00	ug/L			09/24/13 18:28	1
Carbon disulfide	1.92		1.00	ug/L			09/24/13 18:28	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 18:28	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 18:28	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 18:28	1
Chloroethane	ND		1.00	ug/L			09/24/13 18:28	1
Chloroform	4.09		1.00	ug/L			09/24/13 18:28	1
Chloromethane	11.4		1.00	ug/L			09/24/13 18:28	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:28	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:28	1
Dibromomethane	ND		1.00	ug/L			09/24/13 18:28	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 18:28	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 18:28	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 18:28	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5W

Lab Sample ID: 490-35394-4

Date Collected: 09/12/13 10:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 18:28	1
Naphthalene	ND		5.00	ug/L			09/24/13 18:28	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 18:28	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
Styrene	ND		1.00	ug/L			09/24/13 18:28	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 18:28	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 18:28	1
Toluene	ND		1.00	ug/L			09/24/13 18:28	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:28	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:28	1
Trichloroethene	ND		1.00	ug/L			09/24/13 18:28	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 18:28	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 18:28	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		09/24/13 18:28	1
4-Bromofluorobenzene (Surr)	81		70 - 130		09/24/13 18:28	1
Dibromofluoromethane (Surr)	106		70 - 130		09/24/13 18:28	1
Toluene-d8 (Surr)	72		70 - 130		09/24/13 18:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
1,2-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
1,3-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
1,4-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
1-Methylnaphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4,5-Trichlorophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4,6-Trichlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4-Dichlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4-Dimethylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4-Dinitrophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,4-Dinitrotoluene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2,6-Dinitrotoluene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Chloronaphthalene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Chlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Methylnaphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
2-Nitrophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
3,3'-Dichlorobenzidine	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
3 & 4 Methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
3-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
4,6-Dinitro-2-methylphenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
4-Bromophenyl phenyl ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
4-Chloro-3-methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
4-Chlorophenyl phenyl ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5W

Lab Sample ID: 490-35394-4

Date Collected: 09/12/13 10:10

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
4-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
4-Nitrophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
Acenaphthylene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Acenaphthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Benzo[a]anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Benzo[a]pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Benzo[b]fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Benzo[g,h,i]perylene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Benzo[k]fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Bis(2-chloroethoxy)methane	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Bis(2-chloroethyl)ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Bis(2-ethylhexyl) phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
bis (2-chloroisopropyl) ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Butyl benzyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Carbazole	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Chrysene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Cresols	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Dibenz(a,h)anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Dibenzofuran	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Diethyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Dimethyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Di-n-butyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Di-n-octyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Fluorene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Hexachlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Hexachlorobutadiene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Hexachlorocyclopentadiene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Hexachloroethane	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Indeno[1,2,3-cd]pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Isophorone	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Naphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Nitrobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
N-Nitrosodi-n-propylamine	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Pentachlorophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 19:23	1
Phenanthrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Phenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 19:23	1
Pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	64		10 - 120			09/18/13 10:05	09/18/13 19:23	1
2-Fluorobiphenyl (Surr)	69		29 - 120			09/18/13 10:05	09/18/13 19:23	1
2-Fluorophenol (Surr)	40		10 - 120			09/18/13 10:05	09/18/13 19:23	1
Nitrobenzene-d5 (Surr)	71		27 - 120			09/18/13 10:05	09/18/13 19:23	1
Phenol-d5 (Surr)	28		10 - 120			09/18/13 10:05	09/18/13 19:23	1
Terphenyl-d14 (Surr)	82		13 - 120			09/18/13 10:05	09/18/13 19:23	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5W
Date Collected: 09/12/13 10:10
Date Received: 09/14/13 10:00

Lab Sample ID: 490-35394-4
Matrix: Water

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 22:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	67		50 - 150				09/16/13 22:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	397		118	ug/L		09/18/13 12:19	09/19/13 01:12	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	122		50 - 150			09/18/13 12:19	09/19/13 01:12	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14600		200	mg/L			09/24/13 15:59	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15.4		1.00	mg/L		09/17/13 07:49	09/18/13 22:46	10
Arsenic	ND		0.100	mg/L		09/17/13 07:49	09/18/13 22:46	10
Chromium	0.197		0.0500	mg/L		09/17/13 07:49	09/18/13 22:46	10
Copper	0.108		0.100	mg/L		09/17/13 07:49	09/18/13 22:46	10
Iron	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:46	10
Lead	ND		0.0500	mg/L		09/17/13 07:49	09/18/13 22:46	10
Manganese	9.97		0.150	mg/L		09/17/13 07:49	09/18/13 22:46	10
Selenium	ND		0.100	mg/L		09/17/13 07:49	09/18/13 22:46	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3W

Lab Sample ID: 490-35394-5

Date Collected: 09/12/13 10:50

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:55	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 18:55	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 18:55	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 18:55	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 18:55	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 18:55	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 18:55	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 18:55	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 18:55	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 18:55	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 18:55	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 18:55	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:55	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 18:55	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 18:55	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 18:55	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:55	1
2-Hexanone	ND		5.00	ug/L			09/24/13 18:55	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 18:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 18:55	1
Acetone	86.3		5.00	ug/L			09/24/13 18:55	1
Benzene	ND		1.00	ug/L			09/24/13 18:55	1
Bromobenzene	ND		1.00	ug/L			09/24/13 18:55	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 18:55	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 18:55	1
Bromoform	ND		1.00	ug/L			09/24/13 18:55	1
Bromomethane	ND		1.00	ug/L			09/24/13 18:55	1
Carbon disulfide	1.78		1.00	ug/L			09/24/13 18:55	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 18:55	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 18:55	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 18:55	1
Chloroethane	ND		1.00	ug/L			09/24/13 18:55	1
Chloroform	ND		1.00	ug/L			09/24/13 18:55	1
Chloromethane	1.46		1.00	ug/L			09/24/13 18:55	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:55	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:55	1
Dibromomethane	ND		1.00	ug/L			09/24/13 18:55	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 18:55	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 18:55	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 18:55	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3W

Lab Sample ID: 490-35394-5

Date Collected: 09/12/13 10:50

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 18:55	1
Naphthalene	ND		5.00	ug/L			09/24/13 18:55	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 18:55	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
Styrene	ND		1.00	ug/L			09/24/13 18:55	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 18:55	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 18:55	1
Toluene	ND		1.00	ug/L			09/24/13 18:55	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 18:55	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 18:55	1
Trichloroethene	ND		1.00	ug/L			09/24/13 18:55	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 18:55	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 18:55	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130				09/24/13 18:55	1
4-Bromofluorobenzene (Surr)	95		70 - 130				09/24/13 18:55	1
Dibromofluoromethane (Surr)	103		70 - 130				09/24/13 18:55	1
Toluene-d8 (Surr)	99		70 - 130				09/24/13 18:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
1,2-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
1,3-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
1,4-Dichlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
1-Methylnaphthalene	6.12		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4,5-Trichlorophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4,6-Trichlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4-Dichlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4-Dimethylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4-Dinitrophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,4-Dinitrotoluene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2,6-Dinitrotoluene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Chloronaphthalene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Chlorophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Methylnaphthalene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
2-Nitrophenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
3,3'-Dichlorobenzidine	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
3 & 4 Methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
3-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
4,6-Dinitro-2-methylphenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
4-Bromophenyl phenyl ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
4-Chloro-3-methylphenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
4-Chlorophenyl phenyl ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3W

Lab Sample ID: 490-35394-5

Date Collected: 09/12/13 10:50

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
4-Nitroaniline	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
4-Nitrophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
Acenaphthylene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Acenaphthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Benzo[a]anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Benzo[a]pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Benzo[b]fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Benzo[k]fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Bis(2-chloroethoxy)methane	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Bis(2-chloroethyl)ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Bis(2-ethylhexyl) phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
bis (2-chloroisopropyl) ether	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Butyl benzyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Carbazole	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Chrysene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Cresols	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Dibenzofuran	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Diethyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Dimethyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Di-n-butyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Di-n-octyl phthalate	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Fluoranthene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Fluorene	2.76		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Hexachlorobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Hexachlorobutadiene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Hexachlorocyclopentadiene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Hexachloroethane	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Isophorone	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Naphthalene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Nitrobenzene	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
N-Nitrosodi-n-propylamine	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Pentachlorophenol	ND		29.4	ug/L		09/18/13 10:05	09/18/13 19:45	1
Phenanthrene	4.27		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
Phenol	ND		11.8	ug/L		09/18/13 10:05	09/18/13 19:45	1
Pyrene	ND		2.35	ug/L		09/18/13 10:05	09/18/13 19:45	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	78		10 - 120			09/18/13 10:05	09/18/13 19:45	1
<i>2-Fluorobiphenyl (Surr)</i>	70		29 - 120			09/18/13 10:05	09/18/13 19:45	1
<i>2-Fluorophenol (Surr)</i>	42		10 - 120			09/18/13 10:05	09/18/13 19:45	1
<i>Nitrobenzene-d5 (Surr)</i>	74		27 - 120			09/18/13 10:05	09/18/13 19:45	1
<i>Phenol-d5 (Surr)</i>	32		10 - 120			09/18/13 10:05	09/18/13 19:45	1
<i>Terphenyl-d14 (Surr)</i>	80		13 - 120			09/18/13 10:05	09/18/13 19:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3W
Date Collected: 09/12/13 10:50
Date Received: 09/14/13 10:00

Lab Sample ID: 490-35394-5
Matrix: Water

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 22:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	66		50 - 150				09/16/13 22:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1000		118	ug/L		09/18/13 12:19	09/19/13 01:27	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	101		50 - 150			09/18/13 12:19	09/19/13 01:27	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	15100		500	mg/L			09/27/13 04:39	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:50	10
Arsenic	ND		0.100	mg/L		09/17/13 07:49	09/18/13 22:50	10
Chromium	0.453		0.0500	mg/L		09/17/13 07:49	09/18/13 22:50	10
Copper	ND		0.100	mg/L		09/17/13 07:49	09/18/13 22:50	10
Iron	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:50	10
Lead	ND		0.0500	mg/L		09/17/13 07:49	09/18/13 22:50	10
Manganese	0.960		0.150	mg/L		09/17/13 07:49	09/18/13 22:50	10
Selenium	ND		0.100	mg/L		09/17/13 07:49	09/18/13 22:50	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3S

Lab Sample ID: 490-35394-6

Date Collected: 09/12/13 11:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 19:22	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 19:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 19:22	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 19:22	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 19:22	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 19:22	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 19:22	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 19:22	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 19:22	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 19:22	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 19:22	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 19:22	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 19:22	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 19:22	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 19:22	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 19:22	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 19:22	1
2-Hexanone	ND		5.00	ug/L			09/24/13 19:22	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 19:22	1
Acetone	ND		5.00	ug/L			09/24/13 19:22	1
Benzene	ND		1.00	ug/L			09/24/13 19:22	1
Bromobenzene	ND		1.00	ug/L			09/24/13 19:22	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 19:22	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 19:22	1
Bromoform	ND		1.00	ug/L			09/24/13 19:22	1
Bromomethane	ND		1.00	ug/L			09/24/13 19:22	1
Carbon disulfide	ND		1.00	ug/L			09/24/13 19:22	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 19:22	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 19:22	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 19:22	1
Chloroethane	ND		1.00	ug/L			09/24/13 19:22	1
Chloroform	ND		1.00	ug/L			09/24/13 19:22	1
Chloromethane	ND		1.00	ug/L			09/24/13 19:22	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 19:22	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 19:22	1
Dibromomethane	ND		1.00	ug/L			09/24/13 19:22	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 19:22	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 19:22	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 19:22	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3S

Lab Sample ID: 490-35394-6

Date Collected: 09/12/13 11:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 19:22	1
Naphthalene	ND		5.00	ug/L			09/24/13 19:22	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 19:22	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
Styrene	ND		1.00	ug/L			09/24/13 19:22	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 19:22	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 19:22	1
Toluene	ND		1.00	ug/L			09/24/13 19:22	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 19:22	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 19:22	1
Trichloroethene	ND		1.00	ug/L			09/24/13 19:22	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 19:22	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 19:22	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130				09/24/13 19:22	1
4-Bromofluorobenzene (Surr)	94		70 - 130				09/24/13 19:22	1
Dibromofluoromethane (Surr)	109		70 - 130				09/24/13 19:22	1
Toluene-d8 (Surr)	93		70 - 130				09/24/13 19:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
1,2-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
1,3-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
1,4-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
1-Methylnaphthalene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4,5-Trichlorophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4,6-Trichlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4-Dichlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4-Dimethylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4-Dinitrophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,4-Dinitrotoluene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2,6-Dinitrotoluene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Chloronaphthalene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Chlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Methylnaphthalene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
2-Nitrophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
3,3'-Dichlorobenzidine	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
3 & 4 Methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
3-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4,6-Dinitro-2-methylphenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4-Bromophenyl phenyl ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4-Chloro-3-methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4-Chlorophenyl phenyl ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3S

Lab Sample ID: 490-35394-6

Date Collected: 09/12/13 11:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
4-Nitrophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Acenaphthylene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Acenaphthene	2.52		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Benzo[a]anthracene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Benzo[a]pyrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Benzo[b]fluoranthene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Benzo[g,h,i]perylene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Benzo[k]fluoranthene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Anthracene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Bis(2-chloroethoxy)methane	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Bis(2-chloroethyl)ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Bis(2-ethylhexyl) phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
bis (2-chloroisopropyl) ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Butyl benzyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Carbazole	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Chrysene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Cresols	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Dibenz(a,h)anthracene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Dibenzofuran	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Diethyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Dimethyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Di-n-butyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Di-n-octyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Fluoranthene	2.41		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Fluorene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Hexachlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Hexachlorobutadiene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Hexachlorocyclopentadiene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Hexachloroethane	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Indeno[1,2,3-cd]pyrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Isophorone	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Naphthalene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Nitrobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
N-Nitrosodi-n-propylamine	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Pentachlorophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Phenanthrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Phenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 20:08	1
Pyrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		10 - 120			09/18/13 10:05	09/18/13 20:08	1
2-Fluorobiphenyl (Surr)	68		29 - 120			09/18/13 10:05	09/18/13 20:08	1
2-Fluorophenol (Surr)	44		10 - 120			09/18/13 10:05	09/18/13 20:08	1
Nitrobenzene-d5 (Surr)	73		27 - 120			09/18/13 10:05	09/18/13 20:08	1
Phenol-d5 (Surr)	30		10 - 120			09/18/13 10:05	09/18/13 20:08	1
Terphenyl-d14 (Surr)	78		13 - 120			09/18/13 10:05	09/18/13 20:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-3S

Lab Sample ID: 490-35394-6

Date Collected: 09/12/13 11:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 23:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	68		50 - 150				09/16/13 23:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	857		111	ug/L		09/18/13 12:19	09/19/13 01:42	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	110		50 - 150			09/18/13 12:19	09/19/13 01:42	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2650		50.0	mg/L			09/24/13 16:38	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.245		0.100	mg/L		09/17/13 07:49	09/17/13 18:21	1
Arsenic	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:21	1
Chromium	0.0239		0.00500	mg/L		09/17/13 07:49	09/17/13 18:21	1
Copper	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:21	1
Iron	0.108		0.100	mg/L		09/17/13 07:49	09/17/13 18:21	1
Lead	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:21	1
Manganese	1.47		0.0150	mg/L		09/17/13 07:49	09/17/13 18:21	1
Selenium	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:21	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5S

Lab Sample ID: 490-35394-7

Date Collected: 09/12/13 12:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 19:50	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 19:50	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 19:50	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 19:50	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 19:50	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 19:50	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 19:50	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 19:50	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 19:50	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
1,2,4-Trimethylbenzene	1.77		1.00	ug/L			09/24/13 19:50	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 19:50	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 19:50	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 19:50	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 19:50	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 19:50	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 19:50	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 19:50	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 19:50	1
2-Hexanone	ND		5.00	ug/L			09/24/13 19:50	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 19:50	1
Acetone	ND		5.00	ug/L			09/24/13 19:50	1
Benzene	ND		1.00	ug/L			09/24/13 19:50	1
Bromobenzene	ND		1.00	ug/L			09/24/13 19:50	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 19:50	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 19:50	1
Bromoform	ND		1.00	ug/L			09/24/13 19:50	1
Bromomethane	ND		1.00	ug/L			09/24/13 19:50	1
Carbon disulfide	ND		1.00	ug/L			09/24/13 19:50	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 19:50	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 19:50	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 19:50	1
Chloroethane	ND		1.00	ug/L			09/24/13 19:50	1
Chloroform	ND		1.00	ug/L			09/24/13 19:50	1
Chloromethane	ND		1.00	ug/L			09/24/13 19:50	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 19:50	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 19:50	1
Dibromomethane	ND		1.00	ug/L			09/24/13 19:50	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 19:50	1
Ethylbenzene	1.07		1.00	ug/L			09/24/13 19:50	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 19:50	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 19:50	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5S

Lab Sample ID: 490-35394-7

Date Collected: 09/12/13 12:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 19:50	1
Naphthalene	ND		5.00	ug/L			09/24/13 19:50	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 19:50	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
Styrene	ND		1.00	ug/L			09/24/13 19:50	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 19:50	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 19:50	1
Toluene	ND		1.00	ug/L			09/24/13 19:50	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 19:50	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 19:50	1
Trichloroethene	ND		1.00	ug/L			09/24/13 19:50	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 19:50	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 19:50	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		09/24/13 19:50	1
4-Bromofluorobenzene (Surr)	96		70 - 130		09/24/13 19:50	1
Dibromofluoromethane (Surr)	107		70 - 130		09/24/13 19:50	1
Toluene-d8 (Surr)	98		70 - 130		09/24/13 19:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
1,2-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
1,3-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
1,4-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
1-Methylnaphthalene	44.9		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4,5-Trichlorophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4-Dichlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4-Dimethylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4-Dinitrophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,4-Dinitrotoluene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2,6-Dinitrotoluene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Chloronaphthalene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Chlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Methylnaphthalene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
2-Nitrophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
3 & 4 Methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
3-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5S

Lab Sample ID: 490-35394-7

Date Collected: 09/12/13 12:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
4-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
4-Nitrophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
Acenaphthylene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Acenaphthene	14.4		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Benzo[a]anthracene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Benzo[a]pyrene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Benzo[b]fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Benzo[k]fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Anthracene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Butyl benzyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Carbazole	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Chrysene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Cresols	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Dibenzofuran	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Diethyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Dimethyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Di-n-butyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Di-n-octyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Fluorene	2.97		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Hexachlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Hexachlorobutadiene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Hexachloroethane	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Isophorone	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Naphthalene	7.53		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Nitrobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Pentachlorophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 20:31	1
Phenanthrene	2.78		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Phenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 20:31	1
Pyrene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120			09/18/13 10:05	09/18/13 20:31	1
2-Fluorobiphenyl (Surr)	67		29 - 120			09/18/13 10:05	09/18/13 20:31	1
2-Fluorophenol (Surr)	43		10 - 120			09/18/13 10:05	09/18/13 20:31	1
Nitrobenzene-d5 (Surr)	65		27 - 120			09/18/13 10:05	09/18/13 20:31	1
Phenol-d5 (Surr)	30		10 - 120			09/18/13 10:05	09/18/13 20:31	1
Terphenyl-d14 (Surr)	81		13 - 120			09/18/13 10:05	09/18/13 20:31	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5S

Lab Sample ID: 490-35394-7

Date Collected: 09/12/13 12:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 23:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	68		50 - 150				09/16/13 23:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	343		118	ug/L		09/18/13 12:19	09/19/13 01:58	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	102		50 - 150			09/18/13 12:19	09/19/13 01:58	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	485		10.0	mg/L			09/24/13 16:57	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.99		0.100	mg/L		09/17/13 07:49	09/17/13 18:24	1
Arsenic	0.0106		0.0100	mg/L		09/17/13 07:49	09/17/13 18:24	1
Chromium	0.157		0.00500	mg/L		09/17/13 07:49	09/17/13 18:24	1
Copper	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:24	1
Iron	ND		0.100	mg/L		09/17/13 07:49	09/17/13 18:24	1
Lead	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:24	1
Manganese	1.29		0.0150	mg/L		09/17/13 07:49	09/17/13 18:24	1
Selenium	0.0120		0.0100	mg/L		09/17/13 07:49	09/17/13 18:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10S

Lab Sample ID: 490-35394-8

Date Collected: 09/12/13 13:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 20:17	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 20:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 20:17	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 20:17	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 20:17	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 20:17	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 20:17	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 20:17	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 20:17	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
1,2,4-Trimethylbenzene	25.5		1.00	ug/L			09/24/13 20:17	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 20:17	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 20:17	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 20:17	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 20:17	1
1,3,5-Trimethylbenzene	4.80		1.00	ug/L			09/24/13 20:17	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 20:17	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 20:17	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 20:17	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 20:17	1
2-Hexanone	ND		5.00	ug/L			09/24/13 20:17	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 20:17	1
Acetone	132		5.00	ug/L			09/24/13 20:17	1
Benzene	5.74		1.00	ug/L			09/24/13 20:17	1
Bromobenzene	ND		1.00	ug/L			09/24/13 20:17	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 20:17	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 20:17	1
Bromoform	ND		1.00	ug/L			09/24/13 20:17	1
Bromomethane	ND		1.00	ug/L			09/24/13 20:17	1
Carbon disulfide	15.1		1.00	ug/L			09/24/13 20:17	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 20:17	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 20:17	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 20:17	1
Chloroethane	ND		1.00	ug/L			09/24/13 20:17	1
Chloroform	ND		1.00	ug/L			09/24/13 20:17	1
Chloromethane	6.06		1.00	ug/L			09/24/13 20:17	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 20:17	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 20:17	1
Dibromomethane	ND		1.00	ug/L			09/24/13 20:17	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 20:17	1
Ethylbenzene	10.3		1.00	ug/L			09/24/13 20:17	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 20:17	1
Isopropylbenzene	3.58		1.00	ug/L			09/24/13 20:17	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 20:17	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10S

Lab Sample ID: 490-35394-8

Date Collected: 09/12/13 13:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 20:17	1
Naphthalene	1640		250	ug/L			09/26/13 17:27	50
n-Butylbenzene	ND		1.00	ug/L			09/24/13 20:17	1
N-Propylbenzene	1.26		1.00	ug/L			09/24/13 20:17	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 20:17	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 20:17	1
Styrene	ND		1.00	ug/L			09/24/13 20:17	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 20:17	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 20:17	1
Toluene	ND		1.00	ug/L			09/24/13 20:17	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 20:17	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 20:17	1
Trichloroethene	ND		1.00	ug/L			09/24/13 20:17	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 20:17	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 20:17	1
Xylenes, Total	13.2		2.00	ug/L			09/24/13 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		09/24/13 20:17	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		09/26/13 17:27	50
4-Bromofluorobenzene (Surr)	96		70 - 130		09/24/13 20:17	1
4-Bromofluorobenzene (Surr)	99		70 - 130		09/26/13 17:27	50
Dibromofluoromethane (Surr)	105		70 - 130		09/24/13 20:17	1
Dibromofluoromethane (Surr)	104		70 - 130		09/26/13 17:27	50
Toluene-d8 (Surr)	99		70 - 130		09/24/13 20:17	1
Toluene-d8 (Surr)	96		70 - 130		09/26/13 17:27	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
1,2-Dichlorobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
1,3-Dichlorobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
1,4-Dichlorobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
1-Methylnaphthalene	318		48.2	ug/L		09/18/13 10:05	09/19/13 13:40	20
2,4,5-Trichlorophenol	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,4,6-Trichlorophenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,4-Dichlorophenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,4-Dimethylphenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,4-Dinitrophenol	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,4-Dinitrotoluene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2,6-Dinitrotoluene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2-Chloronaphthalene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2-Chlorophenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2-Methylnaphthalene	413		48.2	ug/L		09/18/13 10:05	09/19/13 13:40	20
2-Methylphenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
2-Nitroaniline	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
2-Nitrophenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
3,3'-Dichlorobenzidine	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
3 & 4 Methylphenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
3-Nitroaniline	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10S

Lab Sample ID: 490-35394-8

Date Collected: 09/12/13 13:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Bromophenyl phenyl ether	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Chloro-3-methylphenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Chlorophenyl phenyl ether	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Chloroaniline	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Nitroaniline	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
4-Nitrophenol	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
Acenaphthylene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Acenaphthene	50.2		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Benzo[a]anthracene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Benzo[a]pyrene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Benzo[b]fluoranthene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Benzo[g,h,i]perylene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Benzo[k]fluoranthene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Anthracene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Bis(2-chloroethoxy)methane	15.4		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Bis(2-chloroethyl)ether	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Bis(2-ethylhexyl) phthalate	21.2		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
bis (2-chloroisopropyl) ether	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Butyl benzyl phthalate	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Carbazole	12.6		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Chrysene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Cresols	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Dibenz(a,h)anthracene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Dibenzofuran	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Diethyl phthalate	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Dimethyl phthalate	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Di-n-butyl phthalate	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Di-n-octyl phthalate	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Fluoranthene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Fluorene	18.5		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Hexachlorobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Hexachlorobutadiene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Hexachlorocyclopentadiene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Hexachloroethane	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Indeno[1,2,3-cd]pyrene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Isophorone	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Naphthalene	1130		48.2	ug/L		09/18/13 10:05	09/19/13 13:40	20
Nitrobenzene	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
N-Nitrosodi-n-propylamine	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Pentachlorophenol	ND		30.1	ug/L		09/18/13 10:05	09/18/13 20:53	1
Phenanthrene	18.9		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1
Phenol	ND		12.0	ug/L		09/18/13 10:05	09/18/13 20:53	1
Pyrene	ND		2.41	ug/L		09/18/13 10:05	09/18/13 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 120	09/18/13 10:05	09/18/13 20:53	1
2-Fluorobiphenyl (Surr)	67		29 - 120	09/18/13 10:05	09/18/13 20:53	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-10S

Lab Sample ID: 490-35394-8

Date Collected: 09/12/13 13:15

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	48		10 - 120	09/18/13 10:05	09/18/13 20:53	1
Nitrobenzene-d5 (Surr)	72		27 - 120	09/18/13 10:05	09/18/13 20:53	1
Phenol-d5 (Surr)	36		10 - 120	09/18/13 10:05	09/18/13 20:53	1
Terphenyl-d14 (Surr)	73		13 - 120	09/18/13 10:05	09/18/13 20:53	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	201		100	ug/L			09/17/13 00:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	70		50 - 150		09/17/13 00:09	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	6670		472	ug/L		09/18/13 12:19	09/19/13 10:29	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	121		50 - 150		09/18/13 12:19	09/19/13 10:29	5	

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	20000		200	mg/L			09/24/13 17:16	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	142		10.0	mg/L		09/17/13 07:49	09/18/13 22:54	100
Arsenic	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:54	100
Chromium	ND		0.500	mg/L		09/17/13 07:49	09/18/13 22:54	100
Copper	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:54	100
Iron	ND		10.0	mg/L		09/17/13 07:49	09/18/13 22:54	100
Lead	ND		0.500	mg/L		09/17/13 07:49	09/18/13 22:54	100
Manganese	15.0		1.50	mg/L		09/17/13 07:49	09/18/13 22:54	100
Selenium	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:54	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 20:45	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 20:45	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 20:45	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 20:45	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 20:45	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 20:45	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 20:45	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 20:45	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 20:45	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
1,2,4-Trimethylbenzene	60.5		1.00	ug/L			09/24/13 20:45	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 20:45	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 20:45	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 20:45	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 20:45	1
1,3,5-Trimethylbenzene	29.1		1.00	ug/L			09/24/13 20:45	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 20:45	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 20:45	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 20:45	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 20:45	1
2-Hexanone	ND		5.00	ug/L			09/24/13 20:45	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 20:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 20:45	1
Acetone	ND		5.00	ug/L			09/24/13 20:45	1
Benzene	29.6		1.00	ug/L			09/24/13 20:45	1
Bromobenzene	ND		1.00	ug/L			09/24/13 20:45	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 20:45	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 20:45	1
Bromoform	ND		1.00	ug/L			09/24/13 20:45	1
Bromomethane	ND		1.00	ug/L			09/24/13 20:45	1
Carbon disulfide	1.32		1.00	ug/L			09/24/13 20:45	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 20:45	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 20:45	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 20:45	1
Chloroethane	ND		1.00	ug/L			09/24/13 20:45	1
Chloroform	ND		1.00	ug/L			09/24/13 20:45	1
Chloromethane	ND		1.00	ug/L			09/24/13 20:45	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 20:45	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 20:45	1
Dibromomethane	ND		1.00	ug/L			09/24/13 20:45	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 20:45	1
Ethylbenzene	53.0		1.00	ug/L			09/24/13 20:45	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 20:45	1
Isopropylbenzene	13.2		1.00	ug/L			09/24/13 20:45	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 20:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 20:45	1
Naphthalene	805		50.0	ug/L			09/26/13 17:55	10
n-Butylbenzene	ND		1.00	ug/L			09/24/13 20:45	1
N-Propylbenzene	7.13		1.00	ug/L			09/24/13 20:45	1
p-Isopropyltoluene	2.77		1.00	ug/L			09/24/13 20:45	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 20:45	1
Styrene	ND		1.00	ug/L			09/24/13 20:45	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 20:45	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 20:45	1
Toluene	1.06		1.00	ug/L			09/24/13 20:45	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 20:45	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 20:45	1
Trichloroethene	ND		1.00	ug/L			09/24/13 20:45	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 20:45	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 20:45	1
Xylenes, Total	25.5		2.00	ug/L			09/24/13 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/24/13 20:45	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		09/26/13 17:55	10
4-Bromofluorobenzene (Surr)	95		70 - 130		09/24/13 20:45	1
4-Bromofluorobenzene (Surr)	100		70 - 130		09/26/13 17:55	10
Dibromofluoromethane (Surr)	105		70 - 130		09/24/13 20:45	1
Dibromofluoromethane (Surr)	103		70 - 130		09/26/13 17:55	10
Toluene-d8 (Surr)	97		70 - 130		09/24/13 20:45	1
Toluene-d8 (Surr)	96		70 - 130		09/26/13 17:55	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
1,2-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
1,3-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
1,4-Dichlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
1-Methylnaphthalene	265		25.0	ug/L		09/18/13 10:05	09/19/13 14:03	10
2,4,5-Trichlorophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,4,6-Trichlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,4-Dichlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,4-Dimethylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,4-Dinitrophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,4-Dinitrotoluene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2,6-Dinitrotoluene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Chloronaphthalene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Chlorophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Methylnaphthalene	7.17		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
2-Nitrophenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
3,3'-Dichlorobenzidine	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
3 & 4 Methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
3-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Bromophenyl phenyl ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Chloro-3-methylphenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Chlorophenyl phenyl ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Chloroaniline	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Nitroaniline	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
4-Nitrophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
Acenaphthylene	11.6		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Acenaphthene	102		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Benzo[a]anthracene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Benzo[a]pyrene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Benzo[b]fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Benzo[g,h,i]perylene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Benzo[k]fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Anthracene	6.23		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Bis(2-chloroethoxy)methane	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Bis(2-chloroethyl)ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Bis(2-ethylhexyl) phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
bis (2-chloroisopropyl) ether	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Butyl benzyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Carbazole	19.5		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Chrysene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Cresols	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Dibenz(a,h)anthracene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Dibenzofuran	22.2		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Diethyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Dimethyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Di-n-butyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Di-n-octyl phthalate	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Fluoranthene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Fluorene	38.4		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Hexachlorobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Hexachlorobutadiene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Hexachlorocyclopentadiene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Hexachloroethane	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Indeno[1,2,3-cd]pyrene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Isophorone	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Naphthalene	ND		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Nitrobenzene	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
N-Nitrosodi-n-propylamine	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Pentachlorophenol	ND		31.3	ug/L		09/18/13 10:05	09/18/13 21:16	1
Phenanthrene	18.1		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Phenol	ND		12.5	ug/L		09/18/13 10:05	09/18/13 21:16	1
Pyrene	2.63		2.50	ug/L		09/18/13 10:05	09/18/13 21:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120			09/18/13 10:05	09/18/13 21:16	1
2-Fluorobiphenyl (Surr)	70		29 - 120			09/18/13 10:05	09/18/13 21:16	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		10 - 120	09/18/13 10:05	09/18/13 21:16	1
Nitrobenzene-d5 (Surr)	71		27 - 120	09/18/13 10:05	09/18/13 21:16	1
Phenol-d5 (Surr)	34		10 - 120	09/18/13 10:05	09/18/13 21:16	1
Terphenyl-d14 (Surr)	80		13 - 120	09/18/13 10:05	09/18/13 21:16	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	581		100	ug/L			09/17/13 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	68		50 - 150		09/17/13 00:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4590		471	ug/L		09/18/13 12:19	09/19/13 10:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		50 - 150	09/18/13 12:19	09/19/13 10:44	4

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	45.9		2.00	mg/L			09/26/13 12:13	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.122		0.100	mg/L		09/17/13 07:49	09/17/13 18:45	1
Arsenic	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:45	1
Chromium	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:45	1
Copper	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:45	1
Iron	28.7		0.100	mg/L		09/17/13 07:49	09/17/13 18:45	1
Lead	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:45	1
Manganese	7.02		0.0150	mg/L		09/17/13 07:49	09/17/13 18:45	1
Selenium	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:45	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-20S

Lab Sample ID: 490-35394-10

Date Collected: 09/12/13 14:45

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 21:12	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 21:12	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 21:12	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 21:12	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 21:12	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 21:12	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 21:12	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 21:12	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 21:12	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
1,2,4-Trimethylbenzene	155		1.00	ug/L			09/24/13 21:12	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 21:12	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 21:12	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 21:12	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 21:12	1
1,3,5-Trimethylbenzene	70.1		1.00	ug/L			09/24/13 21:12	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 21:12	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 21:12	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 21:12	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 21:12	1
2-Hexanone	ND		5.00	ug/L			09/24/13 21:12	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 21:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 21:12	1
Acetone	ND		5.00	ug/L			09/24/13 21:12	1
Benzene	12.6		1.00	ug/L			09/24/13 21:12	1
Bromobenzene	ND		1.00	ug/L			09/24/13 21:12	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 21:12	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 21:12	1
Bromoform	ND		1.00	ug/L			09/24/13 21:12	1
Bromomethane	ND		1.00	ug/L			09/24/13 21:12	1
Carbon disulfide	17.4		1.00	ug/L			09/24/13 21:12	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 21:12	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 21:12	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 21:12	1
Chloroethane	ND		1.00	ug/L			09/24/13 21:12	1
Chloroform	ND		1.00	ug/L			09/24/13 21:12	1
Chloromethane	ND		1.00	ug/L			09/24/13 21:12	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 21:12	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 21:12	1
Dibromomethane	ND		1.00	ug/L			09/24/13 21:12	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 21:12	1
Ethylbenzene	98.1		1.00	ug/L			09/24/13 21:12	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 21:12	1
Isopropylbenzene	22.2		1.00	ug/L			09/24/13 21:12	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 21:12	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-20S

Lab Sample ID: 490-35394-10

Date Collected: 09/12/13 14:45

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 21:12	1
Naphthalene	1550		100	ug/L			09/26/13 18:22	20
n-Butylbenzene	ND		1.00	ug/L			09/24/13 21:12	1
N-Propylbenzene	9.83		1.00	ug/L			09/24/13 21:12	1
p-Isopropyltoluene	4.85		1.00	ug/L			09/24/13 21:12	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 21:12	1
Styrene	ND		1.00	ug/L			09/24/13 21:12	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 21:12	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 21:12	1
Toluene	6.43		1.00	ug/L			09/24/13 21:12	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 21:12	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 21:12	1
Trichloroethene	ND		1.00	ug/L			09/24/13 21:12	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 21:12	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 21:12	1
Xylenes, Total	100		2.00	ug/L			09/24/13 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		09/24/13 21:12	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/26/13 18:22	20
4-Bromofluorobenzene (Surr)	97		70 - 130		09/24/13 21:12	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/26/13 18:22	20
Dibromofluoromethane (Surr)	104		70 - 130		09/24/13 21:12	1
Dibromofluoromethane (Surr)	104		70 - 130		09/26/13 18:22	20
Toluene-d8 (Surr)	99		70 - 130		09/24/13 21:12	1
Toluene-d8 (Surr)	96		70 - 130		09/26/13 18:22	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
1,2-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
1,3-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
1,4-Dichlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
1-Methylnaphthalene	216		21.3	ug/L		09/18/13 10:05	09/19/13 14:26	10
2,4,5-Trichlorophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,4,6-Trichlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,4-Dichlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,4-Dimethylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,4-Dinitrophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,4-Dinitrotoluene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2,6-Dinitrotoluene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Chloronaphthalene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Chlorophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Methylnaphthalene	71.4		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
2-Nitrophenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
3,3'-Dichlorobenzidine	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
3 & 4 Methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
3-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-20S

Lab Sample ID: 490-35394-10

Date Collected: 09/12/13 14:45

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Bromophenyl phenyl ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Chloro-3-methylphenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Chlorophenyl phenyl ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Chloroaniline	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Nitroaniline	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
4-Nitrophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Acenaphthylene	9.57		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Acenaphthene	38.9		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Benzo[a]anthracene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Benzo[a]pyrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Benzo[b]fluoranthene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Benzo[g,h,i]perylene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Benzo[k]fluoranthene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Anthracene	2.29		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Bis(2-chloroethoxy)methane	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Bis(2-chloroethyl)ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Bis(2-ethylhexyl) phthalate	24.9		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
bis (2-chloroisopropyl) ether	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Butyl benzyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Carbazole	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Chrysene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Cresols	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Dibenz(a,h)anthracene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Dibenzofuran	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Diethyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Dimethyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Di-n-butyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Di-n-octyl phthalate	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Fluoranthene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Fluorene	11.2		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Hexachlorobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Hexachlorobutadiene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Hexachlorocyclopentadiene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Hexachloroethane	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Indeno[1,2,3-cd]pyrene	ND		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Isophorone	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Naphthalene	45.2		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Nitrobenzene	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
N-Nitrosodi-n-propylamine	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Pentachlorophenol	ND		26.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Phenanthrene	8.47		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Phenol	ND		10.6	ug/L		09/18/13 10:05	09/18/13 21:39	1
Pyrene	2.39		2.13	ug/L		09/18/13 10:05	09/18/13 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		10 - 120			09/18/13 10:05	09/18/13 21:39	1
2-Fluorobiphenyl (Surr)	73		29 - 120			09/18/13 10:05	09/18/13 21:39	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-20S

Lab Sample ID: 490-35394-10

Date Collected: 09/12/13 14:45

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		10 - 120	09/18/13 10:05	09/18/13 21:39	1
Nitrobenzene-d5 (Surr)	77		27 - 120	09/18/13 10:05	09/18/13 21:39	1
Phenol-d5 (Surr)	31		10 - 120	09/18/13 10:05	09/18/13 21:39	1
Terphenyl-d14 (Surr)	78		13 - 120	09/18/13 10:05	09/18/13 21:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	1150		100	ug/L			09/17/13 01:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
a,a,a-Trifluorotoluene	67		50 - 150		09/17/13 01:09	1		

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	5660		556	ug/L		09/18/13 12:19	09/19/13 10:59	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
o-Terphenyl (Surr)	118		50 - 150		09/18/13 12:19	09/19/13 10:59	5	

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	316		5.00	mg/L			09/24/13 17:54	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.28		0.100	mg/L		09/17/13 07:49	09/17/13 18:48	1
Arsenic	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:48	1
Chromium	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:48	1
Copper	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:48	1
Iron	33.6		0.100	mg/L		09/17/13 07:49	09/17/13 18:48	1
Lead	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 18:48	1
Manganese	5.91		0.0150	mg/L		09/17/13 07:49	09/17/13 18:48	1
Selenium	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 18:48	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-15S

Lab Sample ID: 490-35394-11

Date Collected: 09/12/13 15:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 15:08	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 15:08	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 15:08	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 15:08	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 15:08	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 15:08	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 15:08	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 15:08	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
1,2,4-Trimethylbenzene	1.84		1.00	ug/L			09/26/13 15:08	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/26/13 15:08	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 15:08	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 15:08	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 15:08	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 15:08	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 15:08	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 15:08	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 15:08	1
2-Hexanone	ND		5.00	ug/L			09/26/13 15:08	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 15:08	1
Acetone	23.0		5.00	ug/L			09/26/13 15:08	1
Benzene	ND		1.00	ug/L			09/26/13 15:08	1
Bromobenzene	ND		1.00	ug/L			09/26/13 15:08	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 15:08	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 15:08	1
Bromoform	ND		1.00	ug/L			09/26/13 15:08	1
Bromomethane	ND		1.00	ug/L			09/26/13 15:08	1
Carbon disulfide	4.58		1.00	ug/L			09/26/13 15:08	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 15:08	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 15:08	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 15:08	1
Chloroethane	ND		1.00	ug/L			09/26/13 15:08	1
Chloroform	2.43		1.00	ug/L			09/26/13 15:08	1
Chloromethane	ND		1.00	ug/L			09/26/13 15:08	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 15:08	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 15:08	1
Dibromomethane	ND		1.00	ug/L			09/26/13 15:08	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			09/26/13 15:08	1
Ethylbenzene	1.61		1.00	ug/L			09/26/13 15:08	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 15:08	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 15:08	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-15S

Lab Sample ID: 490-35394-11

Date Collected: 09/12/13 15:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/26/13 15:08	1
Naphthalene	46.4		5.00	ug/L			09/26/13 15:08	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 15:08	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
Styrene	ND		1.00	ug/L			09/26/13 15:08	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 15:08	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 15:08	1
Toluene	ND		1.00	ug/L			09/26/13 15:08	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 15:08	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 15:08	1
Trichloroethene	ND		1.00	ug/L			09/26/13 15:08	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 15:08	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 15:08	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/26/13 15:08	1
4-Bromofluorobenzene (Surr)	100		70 - 130		09/26/13 15:08	1
Dibromofluoromethane (Surr)	107		70 - 130		09/26/13 15:08	1
Toluene-d8 (Surr)	97		70 - 130		09/26/13 15:08	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
1,2-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
1,3-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
1,4-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
1-Methylnaphthalene	31.4		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4-Dichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4-Dimethylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4-Dinitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,4-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2,6-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Chloronaphthalene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Chlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Methylnaphthalene	4.38		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
2-Nitrophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
3 & 4 Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
3-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-15S

Lab Sample ID: 490-35394-11

Date Collected: 09/12/13 15:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
4-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
4-Nitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
Acenaphthylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Acenaphthene	15.0		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Benzo[a]anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Benzo[a]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Benzo[b]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Benzo[k]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Butyl benzyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Carbazole	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Chrysene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Cresols	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Dibenzofuran	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Diethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Dimethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Di-n-butyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Di-n-octyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Fluorene	6.21		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Hexachlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Hexachlorobutadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Hexachloroethane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Isophorone	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Naphthalene	11.3		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Nitrobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Pentachlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:01	1
Phenanthrene	4.06		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Phenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:01	1
Pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	111		10 - 120			09/18/13 10:05	09/18/13 22:01	1
2-Fluorobiphenyl (Surr)	79		29 - 120			09/18/13 10:05	09/18/13 22:01	1
2-Fluorophenol (Surr)	66		10 - 120			09/18/13 10:05	09/18/13 22:01	1
Nitrobenzene-d5 (Surr)	80		27 - 120			09/18/13 10:05	09/18/13 22:01	1
Phenol-d5 (Surr)	50		10 - 120			09/18/13 10:05	09/18/13 22:01	1
Terphenyl-d14 (Surr)	97		13 - 120			09/18/13 10:05	09/18/13 22:01	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-15S

Lab Sample ID: 490-35394-11

Date Collected: 09/12/13 15:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/17/13 01:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>64</i>		<i>50 - 150</i>				<i>09/17/13 01:39</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	834		93.5	ug/L		09/18/13 12:19	09/19/13 02:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>110</i>		<i>50 - 150</i>			<i>09/18/13 12:19</i>	<i>09/19/13 02:59</i>	<i>1</i>

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	14400		500	mg/L			09/27/13 05:00	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	727		10.0	mg/L		09/17/13 07:49	09/18/13 22:57	100
Arsenic	1.95		1.00	mg/L		09/17/13 07:49	09/18/13 22:57	100
Chromium	ND		0.500	mg/L		09/17/13 07:49	09/18/13 22:57	100
Copper	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:57	100
Iron	13.0		10.0	mg/L		09/17/13 07:49	09/18/13 22:57	100
Lead	ND		0.500	mg/L		09/17/13 07:49	09/18/13 22:57	100
Manganese	82.8		1.50	mg/L		09/17/13 07:49	09/18/13 22:57	100
Selenium	ND		1.00	mg/L		09/17/13 07:49	09/18/13 22:57	100

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 15:36	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 15:36	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 15:36	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 15:36	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 15:36	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 15:36	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 15:36	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 15:36	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 15:36	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/26/13 15:36	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 15:36	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 15:36	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 15:36	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 15:36	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 15:36	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 15:36	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 15:36	1
2-Hexanone	ND		5.00	ug/L			09/26/13 15:36	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 15:36	1
Acetone	23.4		5.00	ug/L			09/26/13 15:36	1
Benzene	ND		1.00	ug/L			09/26/13 15:36	1
Bromobenzene	ND		1.00	ug/L			09/26/13 15:36	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 15:36	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 15:36	1
Bromoform	ND		1.00	ug/L			09/26/13 15:36	1
Bromomethane	ND		1.00	ug/L			09/26/13 15:36	1
Carbon disulfide	1.15		1.00	ug/L			09/26/13 15:36	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 15:36	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 15:36	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 15:36	1
Chloroethane	ND		1.00	ug/L			09/26/13 15:36	1
Chloroform	ND		1.00	ug/L			09/26/13 15:36	1
Chloromethane	ND		1.00	ug/L			09/26/13 15:36	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 15:36	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 15:36	1
Dibromomethane	ND		1.00	ug/L			09/26/13 15:36	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			09/26/13 15:36	1
Ethylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 15:36	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 15:36	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/26/13 15:36	1
Naphthalene	48.9		5.00	ug/L			09/26/13 15:36	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 15:36	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
Styrene	ND		1.00	ug/L			09/26/13 15:36	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 15:36	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 15:36	1
Toluene	ND		1.00	ug/L			09/26/13 15:36	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 15:36	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 15:36	1
Trichloroethene	ND		1.00	ug/L			09/26/13 15:36	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 15:36	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 15:36	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130				09/26/13 15:36	1
4-Bromofluorobenzene (Surr)	100		70 - 130				09/26/13 15:36	1
Dibromofluoromethane (Surr)	106		70 - 130				09/26/13 15:36	1
Toluene-d8 (Surr)	97		70 - 130				09/26/13 15:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
1,2-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
1,3-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
1,4-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
1-Methylnaphthalene	38.8		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4-Dichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4-Dimethylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4-Dinitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,4-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2,6-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Chloronaphthalene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Chlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Methylnaphthalene	29.2		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
2-Nitrophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
3 & 4 Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
3-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
4-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
4-Nitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
Acenaphthylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Acenaphthene	2.53		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Benzo[a]anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Benzo[a]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Benzo[b]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Benzo[k]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Butyl benzyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Carbazole	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Chrysene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Cresols	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Dibenzofuran	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Diethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Dimethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Di-n-butyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Di-n-octyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Fluorene	6.24		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Hexachlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Hexachlorobutadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Hexachloroethane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Isophorone	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Naphthalene	25.1		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Nitrobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Pentachlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:24	1
Phenanthrene	12.9		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Phenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:24	1
Pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		10 - 120			09/18/13 10:05	09/18/13 22:24	1
2-Fluorobiphenyl (Surr)	55		29 - 120			09/18/13 10:05	09/18/13 22:24	1
2-Fluorophenol (Surr)	32		10 - 120			09/18/13 10:05	09/18/13 22:24	1
Nitrobenzene-d5 (Surr)	52		27 - 120			09/18/13 10:05	09/18/13 22:24	1
Phenol-d5 (Surr)	25		10 - 120			09/18/13 10:05	09/18/13 22:24	1
Terphenyl-d14 (Surr)	65		13 - 120			09/18/13 10:05	09/18/13 22:24	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/17/13 02:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	67		50 - 150				09/17/13 02:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1570		118	ug/L		09/18/13 12:44	09/19/13 04:15	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	150		50 - 150			09/18/13 12:44	09/19/13 04:15	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	5840		100	mg/L			09/26/13 12:51	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11.1		1.00	mg/L		09/17/13 07:49	09/18/13 23:01	10
Arsenic	ND		0.100	mg/L		09/17/13 07:49	09/18/13 23:01	10
Chromium	ND		0.0500	mg/L		09/17/13 07:49	09/18/13 23:01	10
Copper	0.125		0.100	mg/L		09/17/13 07:49	09/18/13 23:01	10
Iron	6.46		1.00	mg/L		09/17/13 07:49	09/18/13 23:01	10
Lead	ND		0.0500	mg/L		09/17/13 07:49	09/18/13 23:01	10
Manganese	36.1		0.150	mg/L		09/17/13 07:49	09/18/13 23:01	10
Selenium	ND		0.100	mg/L		09/17/13 07:49	09/18/13 23:01	10

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5S

Lab Sample ID: 490-35394-13

Date Collected: 09/12/13 17:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 16:03	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 16:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 16:03	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 16:03	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 16:03	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 16:03	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 16:03	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 16:03	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 16:03	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/26/13 16:03	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 16:03	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 16:03	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 16:03	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 16:03	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 16:03	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 16:03	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 16:03	1
2-Hexanone	ND		5.00	ug/L			09/26/13 16:03	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 16:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 16:03	1
Acetone	62.2		5.00	ug/L			09/26/13 16:03	1
Benzene	ND		1.00	ug/L			09/26/13 16:03	1
Bromobenzene	ND		1.00	ug/L			09/26/13 16:03	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 16:03	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 16:03	1
Bromoform	ND		1.00	ug/L			09/26/13 16:03	1
Bromomethane	7.07		1.00	ug/L			09/26/13 16:03	1
Carbon disulfide	1.31		1.00	ug/L			09/26/13 16:03	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 16:03	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 16:03	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 16:03	1
Chloroethane	ND		1.00	ug/L			09/26/13 16:03	1
Chloroform	ND		1.00	ug/L			09/26/13 16:03	1
Chloromethane	8.53		1.00	ug/L			09/26/13 16:03	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 16:03	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 16:03	1
Dibromomethane	ND		1.00	ug/L			09/26/13 16:03	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			09/26/13 16:03	1
Ethylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 16:03	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 16:03	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5S

Lab Sample ID: 490-35394-13

Date Collected: 09/12/13 17:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/26/13 16:03	1
Naphthalene	20.3		5.00	ug/L			09/26/13 16:03	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 16:03	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
Styrene	ND		1.00	ug/L			09/26/13 16:03	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 16:03	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 16:03	1
Toluene	ND		1.00	ug/L			09/26/13 16:03	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 16:03	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 16:03	1
Trichloroethene	ND		1.00	ug/L			09/26/13 16:03	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 16:03	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 16:03	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/26/13 16:03	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/26/13 16:03	1
Dibromofluoromethane (Surr)	102		70 - 130		09/26/13 16:03	1
Toluene-d8 (Surr)	96		70 - 130		09/26/13 16:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
1,2-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
1,3-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
1,4-Dichlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
1-Methylnaphthalene	50.5		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4,5-Trichlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4,6-Trichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4-Dichlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4-Dimethylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4-Dinitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,4-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2,6-Dinitrotoluene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Chloronaphthalene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Chlorophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Methylnaphthalene	42.1		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
2-Nitrophenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
3,3'-Dichlorobenzidine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
3 & 4 Methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
3-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
4,6-Dinitro-2-methylphenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
4-Bromophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
4-Chloro-3-methylphenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
4-Chlorophenyl phenyl ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5S

Lab Sample ID: 490-35394-13

Date Collected: 09/12/13 17:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
4-Nitroaniline	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
4-Nitrophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
Acenaphthylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Acenaphthene	5.75		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Benzo[a]anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Benzo[a]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Benzo[b]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Benzo[k]fluoranthene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Bis(2-chloroethoxy)methane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Bis(2-chloroethyl)ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Bis(2-ethylhexyl) phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
bis (2-chloroisopropyl) ether	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Butyl benzyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Carbazole	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Chrysene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Cresols	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Dibenzofuran	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Diethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Dimethyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Di-n-butyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Di-n-octyl phthalate	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Fluoranthene	2.41		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Fluorene	5.88		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Hexachlorobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Hexachlorobutadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Hexachlorocyclopentadiene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Hexachloroethane	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Isophorone	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Naphthalene	100		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Nitrobenzene	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
N-Nitrosodi-n-propylamine	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Pentachlorophenol	ND		27.8	ug/L		09/18/13 10:05	09/18/13 22:47	1
Phenanthrene	14.3		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Phenol	ND		11.1	ug/L		09/18/13 10:05	09/18/13 22:47	1
Pyrene	ND		2.22	ug/L		09/18/13 10:05	09/18/13 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		10 - 120			09/18/13 10:05	09/18/13 22:47	1
2-Fluorobiphenyl (Surr)	71		29 - 120			09/18/13 10:05	09/18/13 22:47	1
2-Fluorophenol (Surr)	47		10 - 120			09/18/13 10:05	09/18/13 22:47	1
Nitrobenzene-d5 (Surr)	73		27 - 120			09/18/13 10:05	09/18/13 22:47	1
Phenol-d5 (Surr)	33		10 - 120			09/18/13 10:05	09/18/13 22:47	1
Terphenyl-d14 (Surr)	74		13 - 120			09/18/13 10:05	09/18/13 22:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5S

Lab Sample ID: 490-35394-13

Date Collected: 09/12/13 17:00

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/17/13 02:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	68		50 - 150				09/17/13 02:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1060		111	ug/L		09/18/13 12:44	09/19/13 04:30	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	115		50 - 150			09/18/13 12:44	09/19/13 04:30	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2090		50.0	mg/L			09/24/13 19:30	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.208		0.100	mg/L		09/18/13 08:35	09/18/13 23:40	1
Arsenic	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:40	1
Chromium	0.0238		0.00500	mg/L		09/18/13 08:35	09/18/13 23:40	1
Copper	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:40	1
Iron	ND		0.100	mg/L		09/18/13 08:35	09/18/13 23:40	1
Lead	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:40	1
Manganese	0.422		0.0150	mg/L		09/18/13 08:35	09/18/13 23:40	1
Selenium	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:40	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5N

Lab Sample ID: 490-35394-14

Date Collected: 09/12/13 17:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 16:30	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 16:30	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 16:30	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 16:30	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 16:30	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 16:30	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 16:30	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 16:30	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 16:30	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/26/13 16:30	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 16:30	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 16:30	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 16:30	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 16:30	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 16:30	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 16:30	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 16:30	1
2-Hexanone	ND		5.00	ug/L			09/26/13 16:30	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 16:30	1
Acetone	ND		5.00	ug/L			09/26/13 16:30	1
Benzene	ND		1.00	ug/L			09/26/13 16:30	1
Bromobenzene	ND		1.00	ug/L			09/26/13 16:30	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 16:30	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 16:30	1
Bromoform	ND		1.00	ug/L			09/26/13 16:30	1
Bromomethane	ND		1.00	ug/L			09/26/13 16:30	1
Carbon disulfide	ND		1.00	ug/L			09/26/13 16:30	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 16:30	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 16:30	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 16:30	1
Chloroethane	ND		1.00	ug/L			09/26/13 16:30	1
Chloroform	ND		1.00	ug/L			09/26/13 16:30	1
Chloromethane	ND		1.00	ug/L			09/26/13 16:30	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 16:30	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 16:30	1
Dibromomethane	ND		1.00	ug/L			09/26/13 16:30	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			09/26/13 16:30	1
Ethylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 16:30	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 16:30	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5N

Lab Sample ID: 490-35394-14

Date Collected: 09/12/13 17:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/26/13 16:30	1
Naphthalene	11.9		5.00	ug/L			09/26/13 16:30	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 16:30	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
Styrene	ND		1.00	ug/L			09/26/13 16:30	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 16:30	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 16:30	1
Toluene	ND		1.00	ug/L			09/26/13 16:30	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 16:30	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 16:30	1
Trichloroethene	ND		1.00	ug/L			09/26/13 16:30	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 16:30	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 16:30	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		09/26/13 16:30	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/26/13 16:30	1
Dibromofluoromethane (Surr)	98		70 - 130		09/26/13 16:30	1
Toluene-d8 (Surr)	98		70 - 130		09/26/13 16:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
1,2-Dichlorobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
1,3-Dichlorobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
1,4-Dichlorobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
1-Methylnaphthalene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4,5-Trichlorophenol	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4,6-Trichlorophenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4-Dichlorophenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4-Dimethylphenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4-Dinitrophenol	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,4-Dinitrotoluene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2,6-Dinitrotoluene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Chloronaphthalene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Chlorophenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Methylnaphthalene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Methylphenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Nitroaniline	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
2-Nitrophenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
3,3'-Dichlorobenzidine	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
3 & 4 Methylphenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
3-Nitroaniline	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
4,6-Dinitro-2-methylphenol	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
4-Bromophenyl phenyl ether	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
4-Chloro-3-methylphenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
4-Chlorophenyl phenyl ether	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5N

Lab Sample ID: 490-35394-14

Date Collected: 09/12/13 17:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
4-Nitroaniline	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
4-Nitrophenol	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
Acenaphthylene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Acenaphthene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Benzo[a]anthracene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Benzo[a]pyrene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Benzo[b]fluoranthene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Benzo[g,h,i]perylene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Benzo[k]fluoranthene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Anthracene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Bis(2-chloroethoxy)methane	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Bis(2-chloroethyl)ether	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Bis(2-ethylhexyl) phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
bis (2-chloroisopropyl) ether	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Butyl benzyl phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Carbazole	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Chrysene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Cresols	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Dibenz(a,h)anthracene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Dibenzofuran	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Diethyl phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Dimethyl phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Di-n-butyl phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Di-n-octyl phthalate	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Fluoranthene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Fluorene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Hexachlorobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Hexachlorobutadiene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Hexachlorocyclopentadiene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Hexachloroethane	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Indeno[1,2,3-cd]pyrene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Isophorone	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Naphthalene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Nitrobenzene	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
N-Nitrosodi-n-propylamine	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Pentachlorophenol	ND		28.1	ug/L		09/18/13 10:05	09/18/13 23:09	1
Phenanthrene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Phenol	ND		11.2	ug/L		09/18/13 10:05	09/18/13 23:09	1
Pyrene	ND		2.25	ug/L		09/18/13 10:05	09/18/13 23:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 120			09/18/13 10:05	09/18/13 23:09	1
2-Fluorobiphenyl (Surr)	56		29 - 120			09/18/13 10:05	09/18/13 23:09	1
2-Fluorophenol (Surr)	37		10 - 120			09/18/13 10:05	09/18/13 23:09	1
Nitrobenzene-d5 (Surr)	58		27 - 120			09/18/13 10:05	09/18/13 23:09	1
Phenol-d5 (Surr)	25		10 - 120			09/18/13 10:05	09/18/13 23:09	1
Terphenyl-d14 (Surr)	75		13 - 120			09/18/13 10:05	09/18/13 23:09	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5N

Lab Sample ID: 490-35394-14

Date Collected: 09/12/13 17:30

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/17/13 03:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	<i>67</i>		<i>50 - 150</i>				<i>09/17/13 03:09</i>	<i>1</i>

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		93.5	ug/L		09/18/13 12:44	09/19/13 04:45	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	<i>108</i>		<i>50 - 150</i>			<i>09/18/13 12:44</i>	<i>09/19/13 04:45</i>	<i>1</i>

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	74.9		1.00	mg/L			09/24/13 19:49	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.158		0.100	mg/L		09/18/13 08:35	09/18/13 23:43	1
Arsenic	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:43	1
Chromium	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:43	1
Copper	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:43	1
Iron	ND		0.100	mg/L		09/18/13 08:35	09/18/13 23:43	1
Lead	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:43	1
Manganese	0.646		0.0150	mg/L		09/18/13 08:35	09/18/13 23:43	1
Selenium	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:43	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5E

Lab Sample ID: 490-35394-15

Date Collected: 09/12/13 18:05

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 17:00	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 17:00	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 17:00	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 17:00	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 17:00	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 17:00	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 17:00	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 17:00	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 17:00	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/26/13 17:00	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 17:00	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 17:00	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 17:00	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 17:00	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 17:00	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 17:00	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 17:00	1
2-Hexanone	ND		5.00	ug/L			09/26/13 17:00	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 17:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 17:00	1
Acetone	ND		5.00	ug/L			09/26/13 17:00	1
Benzene	ND		1.00	ug/L			09/26/13 17:00	1
Bromobenzene	ND		1.00	ug/L			09/26/13 17:00	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 17:00	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 17:00	1
Bromoform	ND		1.00	ug/L			09/26/13 17:00	1
Bromomethane	ND		1.00	ug/L			09/26/13 17:00	1
Carbon disulfide	ND		1.00	ug/L			09/26/13 17:00	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 17:00	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 17:00	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 17:00	1
Chloroethane	ND		1.00	ug/L			09/26/13 17:00	1
Chloroform	ND		1.00	ug/L			09/26/13 17:00	1
Chloromethane	ND		1.00	ug/L			09/26/13 17:00	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 17:00	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 17:00	1
Dibromomethane	ND		1.00	ug/L			09/26/13 17:00	1
Dichlorodifluoromethane	ND	*	1.00	ug/L			09/26/13 17:00	1
Ethylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 17:00	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 17:00	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5E

Lab Sample ID: 490-35394-15

Date Collected: 09/12/13 18:05

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/26/13 17:00	1
Naphthalene	9.80		5.00	ug/L			09/26/13 17:00	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 17:00	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
Styrene	ND		1.00	ug/L			09/26/13 17:00	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 17:00	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 17:00	1
Toluene	ND		1.00	ug/L			09/26/13 17:00	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 17:00	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 17:00	1
Trichloroethene	ND		1.00	ug/L			09/26/13 17:00	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 17:00	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 17:00	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 130				09/26/13 17:00	1
<i>4-Bromofluorobenzene (Surr)</i>	102		70 - 130				09/26/13 17:00	1
<i>Dibromofluoromethane (Surr)</i>	106		70 - 130				09/26/13 17:00	1
<i>Toluene-d8 (Surr)</i>	98		70 - 130				09/26/13 17:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
1,2-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
1,3-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
1,4-Dichlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
1-Methylnaphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4,5-Trichlorophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4,6-Trichlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4-Dichlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4-Dimethylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4-Dinitrophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,4-Dinitrotoluene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2,6-Dinitrotoluene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Chloronaphthalene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Chlorophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Methylnaphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
2-Nitrophenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
3,3'-Dichlorobenzidine	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
3 & 4 Methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
3-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
4,6-Dinitro-2-methylphenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
4-Bromophenyl phenyl ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
4-Chloro-3-methylphenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
4-Chlorophenyl phenyl ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5E

Lab Sample ID: 490-35394-15

Date Collected: 09/12/13 18:05

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
4-Nitroaniline	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
4-Nitrophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
Acenaphthylene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Acenaphthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Benzo[a]anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Benzo[a]pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Benzo[b]fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Benzo[g,h,i]perylene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Benzo[k]fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Bis(2-chloroethoxy)methane	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Bis(2-chloroethyl)ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Bis(2-ethylhexyl) phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
bis (2-chloroisopropyl) ether	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Butyl benzyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Carbazole	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Chrysene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Cresols	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Dibenz(a,h)anthracene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Dibenzofuran	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Diethyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Dimethyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Di-n-butyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Di-n-octyl phthalate	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Fluoranthene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Fluorene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Hexachlorobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Hexachlorobutadiene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Hexachlorocyclopentadiene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Hexachloroethane	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Indeno[1,2,3-cd]pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Isophorone	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Naphthalene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Nitrobenzene	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
N-Nitrosodi-n-propylamine	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Pentachlorophenol	ND		29.8	ug/L		09/18/13 10:05	09/18/13 23:32	1
Phenanthrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Phenol	ND		11.9	ug/L		09/18/13 10:05	09/18/13 23:32	1
Pyrene	ND		2.38	ug/L		09/18/13 10:05	09/18/13 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 120			09/18/13 10:05	09/18/13 23:32	1
2-Fluorobiphenyl (Surr)	63		29 - 120			09/18/13 10:05	09/18/13 23:32	1
2-Fluorophenol (Surr)	39		10 - 120			09/18/13 10:05	09/18/13 23:32	1
Nitrobenzene-d5 (Surr)	62		27 - 120			09/18/13 10:05	09/18/13 23:32	1
Phenol-d5 (Surr)	25		10 - 120			09/18/13 10:05	09/18/13 23:32	1
Terphenyl-d14 (Surr)	76		13 - 120			09/18/13 10:05	09/18/13 23:32	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5E

Lab Sample ID: 490-35394-15

Date Collected: 09/12/13 18:05

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/17/13 03:39	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>a,a,a-Trifluorotoluene</i>	69		50 - 150				09/17/13 03:39	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		125	ug/L		09/18/13 12:44	09/19/13 05:01	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl (Surr)</i>	112		50 - 150			09/18/13 12:44	09/19/13 05:01	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	27.2		1.00	mg/L			09/26/13 13:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.19		0.100	mg/L		09/18/13 08:35	09/18/13 23:47	1
Arsenic	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:47	1
Chromium	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:47	1
Copper	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:47	1
Iron	ND		0.100	mg/L		09/18/13 08:35	09/18/13 23:47	1
Lead	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:47	1
Manganese	0.0399		0.0150	mg/L		09/18/13 08:35	09/18/13 23:47	1
Selenium	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:47	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10E

Lab Sample ID: 490-35394-16

Date Collected: 09/12/13 18:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 23:57	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 23:57	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 23:57	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 23:57	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 23:57	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 23:57	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 23:57	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 23:57	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 23:57	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
1,2,4-Trimethylbenzene	23.2		1.00	ug/L			09/24/13 23:57	1
1,2-Dibromo-3-Chloropropane	ND	*	10.0	ug/L			09/24/13 23:57	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 23:57	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 23:57	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 23:57	1
1,3,5-Trimethylbenzene	8.44		1.00	ug/L			09/24/13 23:57	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 23:57	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 23:57	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 23:57	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 23:57	1
2-Hexanone	ND		5.00	ug/L			09/24/13 23:57	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 23:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 23:57	1
Acetone	ND		5.00	ug/L			09/24/13 23:57	1
Benzene	15.5		1.00	ug/L			09/24/13 23:57	1
Bromobenzene	ND		1.00	ug/L			09/24/13 23:57	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 23:57	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 23:57	1
Bromoform	ND		1.00	ug/L			09/24/13 23:57	1
Bromomethane	ND		1.00	ug/L			09/24/13 23:57	1
Carbon disulfide	ND		1.00	ug/L			09/24/13 23:57	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 23:57	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 23:57	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 23:57	1
Chloroethane	ND		1.00	ug/L			09/24/13 23:57	1
Chloroform	ND		1.00	ug/L			09/24/13 23:57	1
Chloromethane	ND		1.00	ug/L			09/24/13 23:57	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 23:57	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 23:57	1
Dibromomethane	ND		1.00	ug/L			09/24/13 23:57	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 23:57	1
Ethylbenzene	41.7		1.00	ug/L			09/24/13 23:57	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 23:57	1
Isopropylbenzene	5.70		1.00	ug/L			09/24/13 23:57	1
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 23:57	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10E

Lab Sample ID: 490-35394-16

Date Collected: 09/12/13 18:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			09/24/13 23:57	1
Naphthalene	351		25.0	ug/L			09/26/13 18:49	5
n-Butylbenzene	ND		1.00	ug/L			09/24/13 23:57	1
N-Propylbenzene	3.18		1.00	ug/L			09/24/13 23:57	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 23:57	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 23:57	1
Styrene	ND		1.00	ug/L			09/24/13 23:57	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 23:57	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 23:57	1
Toluene	ND		1.00	ug/L			09/24/13 23:57	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 23:57	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 23:57	1
Trichloroethene	ND		1.00	ug/L			09/24/13 23:57	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 23:57	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 23:57	1
Xylenes, Total	14.3		2.00	ug/L			09/24/13 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		09/24/13 23:57	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		09/26/13 18:49	5
4-Bromofluorobenzene (Surr)	96		70 - 130		09/24/13 23:57	1
4-Bromofluorobenzene (Surr)	101		70 - 130		09/26/13 18:49	5
Dibromofluoromethane (Surr)	104		70 - 130		09/24/13 23:57	1
Dibromofluoromethane (Surr)	103		70 - 130		09/26/13 18:49	5
Toluene-d8 (Surr)	99		70 - 130		09/24/13 23:57	1
Toluene-d8 (Surr)	96		70 - 130		09/26/13 18:49	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
1,2-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
1,3-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
1,4-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
1-Methylnaphthalene	188		20.0	ug/L		09/18/13 10:05	09/19/13 14:49	10
2,4,5-Trichlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,4-Dichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,4-Dimethylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,4-Dinitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,4-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2,6-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Chloronaphthalene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Chlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Methylnaphthalene	18.5		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
2-Nitrophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
3 & 4 Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
3-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10E

Lab Sample ID: 490-35394-16

Date Collected: 09/12/13 18:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Chloroaniline	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
4-Nitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Acenaphthylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Acenaphthene	37.2		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Benzo[a]anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Benzo[a]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Benzo[b]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Benzo[k]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Butyl benzyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Carbazole	13.2		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Chrysene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Cresols	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Dibenzofuran	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Diethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Dimethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Di-n-butyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Di-n-octyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Fluorene	9.83		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Hexachlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Hexachlorobutadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Hexachloroethane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Isophorone	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Naphthalene	313		20.0	ug/L		09/18/13 10:05	09/19/13 14:49	10
Nitrobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Pentachlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Phenanthrene	6.91		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Phenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 23:54	1
Pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 23:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 120			09/18/13 10:05	09/18/13 23:54	1
2-Fluorobiphenyl (Surr)	66		29 - 120			09/18/13 10:05	09/18/13 23:54	1

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10E

Lab Sample ID: 490-35394-16

Date Collected: 09/12/13 18:35

Matrix: Water

Date Received: 09/14/13 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	46		10 - 120	09/18/13 10:05	09/18/13 23:54	1
Nitrobenzene-d5 (Surr)	67		27 - 120	09/18/13 10:05	09/18/13 23:54	1
Phenol-d5 (Surr)	25		10 - 120	09/18/13 10:05	09/18/13 23:54	1
Terphenyl-d14 (Surr)	71		13 - 120	09/18/13 10:05	09/18/13 23:54	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	272		100	ug/L			09/17/13 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	68		50 - 150		09/17/13 04:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1520		93.5	ug/L		09/18/13 12:44	09/19/13 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	110		50 - 150	09/18/13 12:44	09/19/13 05:16	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	49.3		1.00	mg/L			09/24/13 20:46	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.630		0.100	mg/L		09/18/13 08:35	09/18/13 23:50	1
Arsenic	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:50	1
Chromium	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:50	1
Copper	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:50	1
Iron	3.07		0.100	mg/L		09/18/13 08:35	09/18/13 23:50	1
Lead	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:50	1
Manganese	1.22		0.0150	mg/L		09/18/13 08:35	09/18/13 23:50	1
Selenium	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:50	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-109436/6

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 16:38	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/24/13 16:38	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/24/13 16:38	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/24/13 16:38	1
1,1-Dichloroethane	ND		1.00	ug/L			09/24/13 16:38	1
Diisopropyl ether	ND		2.00	ug/L			09/24/13 16:38	1
1,1-Dichloroethene	ND		1.00	ug/L			09/24/13 16:38	1
1,1-Dichloropropene	ND		1.00	ug/L			09/24/13 16:38	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/24/13 16:38	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			09/24/13 16:38	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/24/13 16:38	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,2-Dichloroethane	ND		1.00	ug/L			09/24/13 16:38	1
1,2-Dichloropropane	ND		1.00	ug/L			09/24/13 16:38	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
1,3-Dichloropropane	ND		1.00	ug/L			09/24/13 16:38	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
2,2-Dichloropropane	ND		1.00	ug/L			09/24/13 16:38	1
2-Butanone (MEK)	ND		50.0	ug/L			09/24/13 16:38	1
2-Chlorotoluene	ND		1.00	ug/L			09/24/13 16:38	1
2-Hexanone	ND		5.00	ug/L			09/24/13 16:38	1
4-Chlorotoluene	ND		1.00	ug/L			09/24/13 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/24/13 16:38	1
Acetone	ND		5.00	ug/L			09/24/13 16:38	1
Benzene	ND		1.00	ug/L			09/24/13 16:38	1
Bromobenzene	ND		1.00	ug/L			09/24/13 16:38	1
Bromochloromethane	ND		1.00	ug/L			09/24/13 16:38	1
Bromodichloromethane	ND		1.00	ug/L			09/24/13 16:38	1
Bromoform	ND		1.00	ug/L			09/24/13 16:38	1
Bromomethane	ND		1.00	ug/L			09/24/13 16:38	1
Carbon disulfide	ND		1.00	ug/L			09/24/13 16:38	1
Carbon tetrachloride	ND		1.00	ug/L			09/24/13 16:38	1
Chlorobenzene	ND		1.00	ug/L			09/24/13 16:38	1
Chlorodibromomethane	ND		1.00	ug/L			09/24/13 16:38	1
Chloroethane	ND		1.00	ug/L			09/24/13 16:38	1
Chloroform	ND		1.00	ug/L			09/24/13 16:38	1
Chloromethane	ND		1.00	ug/L			09/24/13 16:38	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 16:38	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 16:38	1
Dibromomethane	ND		1.00	ug/L			09/24/13 16:38	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/24/13 16:38	1
Ethylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
Hexachlorobutadiene	ND		2.00	ug/L			09/24/13 16:38	1
Isopropylbenzene	ND		1.00	ug/L			09/24/13 16:38	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109436/6

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			09/24/13 16:38	1
Methylene Chloride	ND		5.00	ug/L			09/24/13 16:38	1
Naphthalene	ND		5.00	ug/L			09/24/13 16:38	1
n-Butylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
N-Propylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
p-Isopropyltoluene	ND		1.00	ug/L			09/24/13 16:38	1
sec-Butylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
Styrene	ND		1.00	ug/L			09/24/13 16:38	1
tert-Butylbenzene	ND		1.00	ug/L			09/24/13 16:38	1
Tetrachloroethene	ND		1.00	ug/L			09/24/13 16:38	1
Toluene	ND		1.00	ug/L			09/24/13 16:38	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/24/13 16:38	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/24/13 16:38	1
Trichloroethene	ND		1.00	ug/L			09/24/13 16:38	1
Trichlorofluoromethane	ND		1.00	ug/L			09/24/13 16:38	1
Vinyl chloride	ND		1.00	ug/L			09/24/13 16:38	1
Xylenes, Total	ND		2.00	ug/L			09/24/13 16:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		09/24/13 1: 5B	1
4-mrofluorobenzenene (Surr)	9:		70 - 130		09/24/13 1: 5B	1
Dizrofluoroethane (Surr)	101		70 - 130		09/24/13 1: 5B	1
Toluene-dB (Surr)	100		70 - 130		09/24/13 1: 5B	1

Lab Sample ID: LCS 490-109436/3

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	59.36		ug/L		119	74 - 135
1,1,1-Trichloroethane	50.0	53.36		ug/L		107	78 - 135
1,1,2,2-Tetrachloroethane	50.0	44.70		ug/L		89	69 - 131
1,1,2-Trichloroethane	50.0	46.42		ug/L		93	80 - 124
1,1-Dichloroethane	50.0	46.41		ug/L		93	78 - 125
Diisopropyl ether	50.0	43.40		ug/L		87	61 - 142
1,1-Dichloroethene	50.0	50.37		ug/L		101	79 - 124
1,1-Dichloropropene	50.0	49.65		ug/L		99	80 - 122
1,2,3-Trichlorobenzene	50.0	60.61		ug/L		121	62 - 133
1,2,3-Trichloropropane	50.0	44.97		ug/L		90	70 - 131
1,2,4-Trichlorobenzene	50.0	58.50		ug/L		117	63 - 133
1,2,4-Trimethylbenzene	50.0	52.21		ug/L		104	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	63.61	*	ug/L		127	54 - 125
1,2-Dibromoethane (EDB)	50.0	50.03		ug/L		100	80 - 129
1,2-Dichlorobenzene	50.0	50.77		ug/L		102	80 - 121
1,2-Dichloroethane	50.0	51.55		ug/L		103	77 - 121
1,2-Dichloropropane	50.0	42.81		ug/L		86	75 - 120
1,3,5-Trimethylbenzene	50.0	52.86		ug/L		106	77 - 127
1,3-Dichlorobenzene	50.0	51.26		ug/L		103	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109436/3

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,3-Dichloropropane	50.0	44.58		ug/L		89	80 - 125
1,4-Dichlorobenzene	50.0	51.00		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	54.11		ug/L		108	43 - 161
2-Butanone (MEK)	250	204.3		ug/L		82	62 - 133
2-Chlorotoluene	50.0	49.48		ug/L		99	75 - 126
2-Hexanone	250	208.9		ug/L		84	60 - 142
4-Chlorotoluene	50.0	49.15		ug/L		98	75 - 130
4-Methyl-2-pentanone (MIBK)	250	200.3		ug/L		80	60 - 137
Acetone	250	188.4		ug/L		75	54 - 145
Benzene	50.0	43.46		ug/L		87	80 - 121
Bromobenzene	50.0	47.47		ug/L		95	68 - 130
Bromochloromethane	50.0	50.31		ug/L		101	78 - 129
Bromodichloromethane	50.0	58.14		ug/L		116	75 - 129
Bromoform	50.0	59.51		ug/L		119	46 - 145
Bromomethane	50.0	39.18		ug/L		78	41 - 150
Carbon disulfide	50.0	48.97		ug/L		98	77 - 126
Carbon tetrachloride	50.0	59.00		ug/L		118	64 - 147
Chlorobenzene	50.0	48.18		ug/L		96	80 - 120
Chlorodibromomethane	50.0	59.99		ug/L		120	69 - 133
Chloroethane	50.0	43.14		ug/L		86	72 - 120
Chloroform	50.0	47.65		ug/L		95	73 - 129
Chloromethane	50.0	40.94		ug/L		82	12 - 150
cis-1,2-Dichloroethene	50.0	50.97		ug/L		102	76 - 125
cis-1,3-Dichloropropene	50.0	53.26		ug/L		107	74 - 140
Dibromomethane	50.0	50.70		ug/L		101	71 - 125
Dichlorodifluoromethane	50.0	61.33		ug/L		123	37 - 127
Ethylbenzene	50.0	49.33		ug/L		99	80 - 130
Hexachlorobutadiene	50.0	60.94		ug/L		122	49 - 146
Isopropylbenzene	50.0	52.70		ug/L		105	80 - 141
Methyl tert-butyl ether	50.0	45.06		ug/L		90	72 - 133
Methylene Chloride	50.0	44.98		ug/L		90	79 - 123
Naphthalene	50.0	55.95		ug/L		112	62 - 138
n-Butylbenzene	50.0	50.58		ug/L		101	68 - 132
N-Propylbenzene	50.0	49.52		ug/L		99	75 - 129
p-Isopropyltoluene	50.0	53.38		ug/L		107	75 - 128
sec-Butylbenzene	50.0	52.09		ug/L		104	76 - 128
Styrene	50.0	50.68		ug/L		101	80 - 127
tert-Butylbenzene	50.0	54.21		ug/L		108	76 - 126
Tetrachloroethene	50.0	51.42		ug/L		103	80 - 126
Toluene	50.0	45.80		ug/L		92	80 - 126
trans-1,2-Dichloroethene	50.0	48.16		ug/L		96	79 - 126
trans-1,3-Dichloropropene	50.0	57.82		ug/L		116	63 - 134
Trichloroethene	50.0	50.46		ug/L		101	80 - 123
Trichlorofluoromethane	50.0	53.64		ug/L		107	65 - 124
Vinyl chloride	50.0	48.39		ug/L		97	68 - 120
Xylenes, Total	100	100.2		ug/L		100	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109436/3

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	10:		70 - 130
4-mrofluorobenzenene (Surr)	97		70 - 130
Dizrofluoroethane (Surr)	108		70 - 130
Toluene-dB (Surr)	9:		70 - 130

Lab Sample ID: LCSD 490-109436/4

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	60.54		ug/L		121	74 - 135	2	16
1,1,1-Trichloroethane	50.0	53.62		ug/L		107	78 - 135	0	17
1,1,1,2-Tetrachloroethane	50.0	45.10		ug/L		90	69 - 131	1	20
1,1,2-Trichloroethane	50.0	46.77		ug/L		94	80 - 124	1	15
1,1-Dichloroethane	50.0	45.85		ug/L		92	78 - 125	1	17
Diisopropyl ether	50.0	43.71		ug/L		87	61 - 142	1	50
1,1-Dichloroethene	50.0	52.51		ug/L		105	79 - 124	4	17
1,1-Dichloropropene	50.0	50.09		ug/L		100	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	62.00		ug/L		124	62 - 133	2	25
1,2,3-Trichloropropane	50.0	45.70		ug/L		91	70 - 131	2	19
1,2,4-Trichlorobenzene	50.0	60.84		ug/L		122	63 - 133	4	19
1,2,4-Trimethylbenzene	50.0	53.22		ug/L		106	77 - 126	2	16
1,2-Dibromo-3-Chloropropane	50.0	64.11	*	ug/L		128	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	50.95		ug/L		102	80 - 129	2	15
1,2-Dichlorobenzene	50.0	51.42		ug/L		103	80 - 121	1	15
1,2-Dichloroethane	50.0	51.91		ug/L		104	77 - 121	1	17
1,2-Dichloropropane	50.0	44.12		ug/L		88	75 - 120	3	17
1,3,5-Trimethylbenzene	50.0	53.03		ug/L		106	77 - 127	0	17
1,3-Dichlorobenzene	50.0	51.59		ug/L		103	80 - 122	1	15
1,3-Dichloropropane	50.0	45.15		ug/L		90	80 - 125	1	14
1,4-Dichlorobenzene	50.0	52.01		ug/L		104	80 - 120	2	15
2,2-Dichloropropane	50.0	53.72		ug/L		107	43 - 161	1	18
2-Butanone (MEK)	250	204.6		ug/L		82	62 - 133	0	19
2-Chlorotoluene	50.0	49.28		ug/L		99	75 - 126	0	17
2-Hexanone	250	213.0		ug/L		85	60 - 142	2	15
4-Chlorotoluene	50.0	49.43		ug/L		99	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	204.6		ug/L		82	60 - 137	2	17
Acetone	250	194.8		ug/L		78	54 - 145	3	21
Benzene	50.0	43.85		ug/L		88	80 - 121	1	17
Bromobenzene	50.0	46.92		ug/L		94	68 - 130	1	20
Bromochloromethane	50.0	50.62		ug/L		101	78 - 129	1	17
Bromodichloromethane	50.0	59.18		ug/L		118	75 - 129	2	18
Bromoform	50.0	60.95		ug/L		122	46 - 145	2	16
Bromomethane	50.0	40.54		ug/L		81	41 - 150	3	50
Carbon disulfide	50.0	49.71		ug/L		99	77 - 126	1	21
Carbon tetrachloride	50.0	58.90		ug/L		118	64 - 147	0	19
Chlorobenzene	50.0	49.04		ug/L		98	80 - 120	2	14
Chlorodibromomethane	50.0	61.64		ug/L		123	69 - 133	3	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-109436/4

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	43.88		ug/L		88	72 - 120	2	20	
Chloroform	50.0	48.43		ug/L		97	73 - 129	2	18	
Chloromethane	50.0	42.95		ug/L		86	12 - 150	5	31	
cis-1,2-Dichloroethene	50.0	51.09		ug/L		102	76 - 125	0	17	
cis-1,3-Dichloropropene	50.0	53.27		ug/L		107	74 - 140	0	15	
Dibromomethane	50.0	51.44		ug/L		103	71 - 125	1	16	
Dichlorodifluoromethane	50.0	61.34		ug/L		123	37 - 127	0	18	
Ethylbenzene	50.0	49.86		ug/L		100	80 - 130	1	15	
Hexachlorobutadiene	50.0	63.92		ug/L		128	49 - 146	5	23	
Isopropylbenzene	50.0	53.87		ug/L		108	80 - 141	2	16	
Methyl tert-butyl ether	50.0	45.36		ug/L		91	72 - 133	1	16	
Methylene Chloride	50.0	46.09		ug/L		92	79 - 123	2	17	
Naphthalene	50.0	57.28		ug/L		115	62 - 138	2	26	
n-Butylbenzene	50.0	51.38		ug/L		103	68 - 132	2	18	
N-Propylbenzene	50.0	50.22		ug/L		100	75 - 129	1	17	
p-Isopropyltoluene	50.0	53.89		ug/L		108	75 - 128	1	16	
sec-Butylbenzene	50.0	52.68		ug/L		105	76 - 128	1	16	
Styrene	50.0	51.61		ug/L		103	80 - 127	2	24	
tert-Butylbenzene	50.0	54.76		ug/L		110	76 - 126	1	16	
Tetrachloroethene	50.0	53.00		ug/L		106	80 - 126	3	16	
Toluene	50.0	46.02		ug/L		92	80 - 126	0	15	
trans-1,2-Dichloroethene	50.0	48.61		ug/L		97	79 - 126	1	16	
trans-1,3-Dichloropropene	50.0	58.42		ug/L		117	63 - 134	1	14	
Trichloroethene	50.0	50.75		ug/L		101	80 - 123	1	17	
Trichlorofluoromethane	50.0	54.37		ug/L		109	65 - 124	1	18	
Vinyl chloride	50.0	48.90		ug/L		98	68 - 120	1	17	
Xylenes, Total	100	102.5		ug/L		102	80 - 132	2	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	10		70 - 130
4-mrofluorobenzene (Surr)	99		70 - 130
Dizrofluoroethane (Surr)	104		70 - 130
Toluene-dB (Surr)	98		70 - 130

Lab Sample ID: 490-35892-A-5 MS

Matrix: Water

Analysis Batch: 109436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	61.30		ug/L		123	73 - 141	
1,1,1-Trichloroethane	ND		50.0	57.08		ug/L		114	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	46.36		ug/L		93	56 - 143	
1,1,2-Trichloroethane	ND		50.0	48.18		ug/L		96	74 - 134	
1,1-Dichloroethane	ND		50.0	50.06		ug/L		100	71 - 139	
Diisopropyl ether	ND		50.0	46.11		ug/L		92	10 - 200	
1,1-Dichloroethene	ND		50.0	52.96		ug/L		106	70 - 142	
1,1-Dichloropropene	ND		50.0	51.67		ug/L		103	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	61.60		ug/L		123	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35892-A-5 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109436

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	46.57		ug/L		93	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	60.08		ug/L		120	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	59.46		ug/L		119	69 - 136
1,2-Dibromo-3-Chloropropane	ND	*	50.0	66.08	F	ug/L		132	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	50.91		ug/L		102	75 - 137
1,2-Dichlorobenzene	ND		50.0	53.32		ug/L		107	79 - 128
1,2-Dichloroethane	ND		50.0	53.48		ug/L		107	64 - 136
1,2-Dichloropropane	ND		50.0	46.25		ug/L		93	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	55.78		ug/L		112	69 - 139
1,3-Dichlorobenzene	ND		50.0	53.03		ug/L		106	77 - 131
1,3-Dichloropropane	ND		50.0	46.52		ug/L		93	72 - 134
1,4-Dichlorobenzene	ND		50.0	52.13		ug/L		104	78 - 126
2,2-Dichloropropane	ND		50.0	51.60		ug/L		103	37 - 175
2-Butanone (MEK)	ND		250	206.4		ug/L		83	50 - 138
2-Chlorotoluene	ND		50.0	52.18		ug/L		104	67 - 138
2-Hexanone	ND		250	225.2		ug/L		90	50 - 150
4-Chlorotoluene	ND		50.0	51.36		ug/L		103	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	218.3		ug/L		87	50 - 147
Acetone	ND		250	189.0		ug/L		76	45 - 141
Benzene	ND		50.0	46.52		ug/L		93	75 - 133
Bromobenzene	ND		50.0	48.57		ug/L		97	60 - 138
Bromochloromethane	ND		50.0	52.37		ug/L		105	67 - 139
Bromodichloromethane	ND		50.0	61.56		ug/L		123	70 - 140
Bromoform	ND		50.0	61.17		ug/L		122	42 - 147
Bromomethane	ND		50.0	35.64		ug/L		71	16 - 163
Carbon disulfide	ND		50.0	47.81		ug/L		96	48 - 152
Carbon tetrachloride	ND		50.0	61.31		ug/L		123	62 - 164
Chlorobenzene	ND		50.0	50.11		ug/L		100	80 - 129
Chlorodibromomethane	ND		50.0	63.51		ug/L		127	66 - 140
Chloroethane	ND		50.0	45.63		ug/L		91	58 - 137
Chloroform	ND		50.0	51.12		ug/L		102	66 - 138
Chloromethane	ND		50.0	45.72		ug/L		91	10 - 169
cis-1,2-Dichloroethene	ND		50.0	52.36		ug/L		105	68 - 138
cis-1,3-Dichloropropene	ND		50.0	54.27		ug/L		109	71 - 141
Dibromomethane	ND		50.0	52.27		ug/L		105	58 - 140
Dichlorodifluoromethane	ND		50.0	56.18		ug/L		112	40 - 127
Ethylbenzene	ND		50.0	51.64		ug/L		103	79 - 139
Hexachlorobutadiene	ND		50.0	63.21		ug/L		126	45 - 155
Isopropylbenzene	ND		50.0	55.73		ug/L		111	80 - 153
Methyl tert-butyl ether	2.85		50.0	50.87		ug/L		96	66 - 141
Methylene Chloride	ND		50.0	47.21		ug/L		94	64 - 139
Naphthalene	8.82		50.0	61.11		ug/L		105	55 - 140
n-Butylbenzene	ND		50.0	53.15		ug/L		106	66 - 141
N-Propylbenzene	ND		50.0	53.57		ug/L		107	69 - 142
p-Isopropyltoluene	ND		50.0	55.93		ug/L		112	71 - 137
sec-Butylbenzene	ND		50.0	54.89		ug/L		110	73 - 138
Styrene	ND		50.0	52.82		ug/L		106	61 - 148
tert-Butylbenzene	ND		50.0	57.31		ug/L		115	70 - 138

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35892-A-5 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109436

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	52.58		ug/L		105	72 - 145
Toluene	ND		50.0	47.83		ug/L		96	75 - 136
trans-1,2-Dichloroethene	ND		50.0	50.95		ug/L		102	66 - 143
trans-1,3-Dichloropropene	ND		50.0	58.52		ug/L		117	59 - 135
Trichloroethene	ND		50.0	53.48		ug/L		107	73 - 144
Trichlorofluoromethane	ND		50.0	54.83		ug/L		110	58 - 139
Vinyl chloride	ND		50.0	48.55		ug/L		97	56 - 129
Xylenes, Total	ND		100	105.3		ug/L		105	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-mrofl obluorozen6ene (Surr)	100		70 - 130
Dizrofl obluorof ethane (Surr)	103		70 - 130
Toluene-dB (Surr)	9:		70 - 130

Lab Sample ID: 490-35892-B-5 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109436

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	60.45		ug/L		121	73 - 141	1	16
1,1,1-Trichloroethane	ND		50.0	54.87		ug/L		110	76 - 149	4	17
1,1,1,2-Tetrachloroethane	ND		50.0	45.22		ug/L		90	56 - 143	2	20
1,1,2-Trichloroethane	ND		50.0	46.89		ug/L		94	74 - 134	3	15
1,1-Dichloroethane	ND		50.0	49.13		ug/L		98	71 - 139	2	17
Diisopropyl ether	ND		50.0	45.32		ug/L		91	10 - 200	2	50
1,1-Dichloroethene	ND		50.0	48.07		ug/L		96	70 - 142	10	17
1,1-Dichloropropene	ND		50.0	50.73		ug/L		101	76 - 139	2	17
1,2,3-Trichlorobenzene	ND		50.0	60.88		ug/L		122	55 - 138	1	25
1,2,3-Trichloropropane	ND		50.0	45.09		ug/L		90	53 - 144	3	19
1,2,4-Trichlorobenzene	ND		50.0	59.17		ug/L		118	60 - 136	2	19
1,2,4-Trimethylbenzene	ND		50.0	53.62		ug/L		107	69 - 136	10	16
1,2-Dibromo-3-Chloropropane	ND	*	50.0	65.97	F	ug/L		132	52 - 126	0	24
1,2-Dibromoethane (EDB)	ND		50.0	50.70		ug/L		101	75 - 137	0	15
1,2-Dichlorobenzene	ND		50.0	50.79		ug/L		102	79 - 128	5	15
1,2-Dichloroethane	ND		50.0	52.74		ug/L		105	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	45.58		ug/L		91	67 - 131	1	17
1,3,5-Trimethylbenzene	ND		50.0	53.13		ug/L		106	69 - 139	5	17
1,3-Dichlorobenzene	ND		50.0	50.99		ug/L		102	77 - 131	4	15
1,3-Dichloropropane	ND		50.0	45.03		ug/L		90	72 - 134	3	14
1,4-Dichlorobenzene	ND		50.0	49.49		ug/L		99	78 - 126	5	15
2,2-Dichloropropane	ND		50.0	49.72		ug/L		99	37 - 175	4	18
2-Butanone (MEK)	ND		250	200.7		ug/L		80	50 - 138	3	19
2-Chlorotoluene	ND		50.0	50.19		ug/L		100	67 - 138	4	17
2-Hexanone	ND		250	220.8		ug/L		88	50 - 150	2	15
4-Chlorotoluene	ND		50.0	49.46		ug/L		99	69 - 138	4	18
4-Methyl-2-pentanone (MIBK)	ND		250	213.7		ug/L		85	50 - 147	2	17
Acetone	ND		250	188.3		ug/L		75	45 - 141	0	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-35892-B-5 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109436

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	45.21		ug/L		90	75 - 133	3	17
Bromobenzene	ND		50.0	47.76		ug/L		96	60 - 138	2	20
Bromochloromethane	ND		50.0	51.47		ug/L		103	67 - 139	2	17
Bromodichloromethane	ND		50.0	60.06		ug/L		120	70 - 140	2	18
Bromoform	ND		50.0	60.24		ug/L		120	42 - 147	2	16
Bromomethane	ND		50.0	38.94		ug/L		78	16 - 163	9	50
Carbon disulfide	ND		50.0	46.75		ug/L		93	48 - 152	2	21
Carbon tetrachloride	ND		50.0	60.38		ug/L		121	62 - 164	2	19
Chlorobenzene	ND		50.0	48.88		ug/L		98	80 - 129	2	14
Chlorodibromomethane	ND		50.0	61.17		ug/L		122	66 - 140	4	15
Chloroethane	ND		50.0	42.61		ug/L		85	58 - 137	7	20
Chloroform	ND		50.0	50.77		ug/L		102	66 - 138	1	18
Chloromethane	ND		50.0	43.67		ug/L		87	10 - 169	5	31
cis-1,2-Dichloroethene	ND		50.0	51.58		ug/L		103	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	53.44		ug/L		107	71 - 141	2	15
Dibromomethane	ND		50.0	52.06		ug/L		104	58 - 140	0	16
Dichlorodifluoromethane	ND		50.0	54.70		ug/L		109	40 - 127	3	18
Ethylbenzene	ND		50.0	49.54		ug/L		99	79 - 139	4	15
Hexachlorobutadiene	ND		50.0	61.35		ug/L		123	45 - 155	3	23
Isopropylbenzene	ND		50.0	53.01		ug/L		106	80 - 153	5	16
Methyl tert-butyl ether	2.85		50.0	50.11		ug/L		95	66 - 141	1	16
Methylene Chloride	ND		50.0	47.08		ug/L		94	64 - 139	0	17
Naphthalene	8.82		50.0	58.61		ug/L		100	55 - 140	4	26
n-Butylbenzene	ND		50.0	50.81		ug/L		102	66 - 141	5	18
N-Propylbenzene	ND		50.0	50.18		ug/L		100	69 - 142	7	17
p-Isopropyltoluene	ND		50.0	53.57		ug/L		107	71 - 137	4	16
sec-Butylbenzene	ND		50.0	52.24		ug/L		104	73 - 138	5	16
Styrene	ND		50.0	50.82		ug/L		102	61 - 148	4	24
tert-Butylbenzene	ND		50.0	55.38		ug/L		111	70 - 138	3	16
Tetrachloroethene	ND		50.0	50.38		ug/L		101	72 - 145	4	16
Toluene	ND		50.0	46.61		ug/L		93	75 - 136	3	15
trans-1,2-Dichloroethene	ND		50.0	49.91		ug/L		100	66 - 143	2	16
trans-1,3-Dichloropropene	ND		50.0	57.38		ug/L		115	59 - 135	2	14
Trichloroethene	ND		50.0	52.03		ug/L		104	73 - 144	3	17
Trichlorofluoromethane	ND		50.0	54.22		ug/L		108	58 - 139	1	18
Vinyl chloride	ND		50.0	47.79		ug/L		96	56 - 129	2	17
Xylenes, Total	ND		100	100.9		ug/L		101	74 - 141	4	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-brofluorobenzene (Surr)	99		70 - 130
Dibrofluoroethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	98		70 - 130

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109825/6

Matrix: Water

Analysis Batch: 109825

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 14:41	1
1,1,1-Trichloroethane	ND		1.00	ug/L			09/26/13 14:41	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			09/26/13 14:41	1
1,1,2-Trichloroethane	ND		1.00	ug/L			09/26/13 14:41	1
1,1-Dichloroethane	ND		1.00	ug/L			09/26/13 14:41	1
Diisopropyl ether	ND		2.00	ug/L			09/26/13 14:41	1
1,1-Dichloroethene	ND		1.00	ug/L			09/26/13 14:41	1
1,1-Dichloropropene	ND		1.00	ug/L			09/26/13 14:41	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,2,3-Trichloropropane	ND		1.00	ug/L			09/26/13 14:41	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			09/26/13 14:41	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			09/26/13 14:41	1
1,2-Dichlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,2-Dichloroethane	ND		1.00	ug/L			09/26/13 14:41	1
1,2-Dichloropropane	ND		1.00	ug/L			09/26/13 14:41	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,3-Dichlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
1,3-Dichloropropane	ND		1.00	ug/L			09/26/13 14:41	1
1,4-Dichlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
2,2-Dichloropropane	ND		1.00	ug/L			09/26/13 14:41	1
2-Butanone (MEK)	ND		50.0	ug/L			09/26/13 14:41	1
2-Chlorotoluene	ND		1.00	ug/L			09/26/13 14:41	1
2-Hexanone	ND		5.00	ug/L			09/26/13 14:41	1
4-Chlorotoluene	ND		1.00	ug/L			09/26/13 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			09/26/13 14:41	1
Acetone	ND		5.00	ug/L			09/26/13 14:41	1
Benzene	ND		1.00	ug/L			09/26/13 14:41	1
Bromobenzene	ND		1.00	ug/L			09/26/13 14:41	1
Bromochloromethane	ND		1.00	ug/L			09/26/13 14:41	1
Bromodichloromethane	ND		1.00	ug/L			09/26/13 14:41	1
Bromoform	ND		1.00	ug/L			09/26/13 14:41	1
Bromomethane	ND		1.00	ug/L			09/26/13 14:41	1
Carbon disulfide	ND		1.00	ug/L			09/26/13 14:41	1
Carbon tetrachloride	ND		1.00	ug/L			09/26/13 14:41	1
Chlorobenzene	ND		1.00	ug/L			09/26/13 14:41	1
Chlorodibromomethane	ND		1.00	ug/L			09/26/13 14:41	1
Chloroethane	ND		1.00	ug/L			09/26/13 14:41	1
Chloroform	ND		1.00	ug/L			09/26/13 14:41	1
Chloromethane	ND		1.00	ug/L			09/26/13 14:41	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 14:41	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 14:41	1
Dibromomethane	ND		1.00	ug/L			09/26/13 14:41	1
Dichlorodifluoromethane	ND		1.00	ug/L			09/26/13 14:41	1
Ethylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
Hexachlorobutadiene	ND		2.00	ug/L			09/26/13 14:41	1
Isopropylbenzene	ND		1.00	ug/L			09/26/13 14:41	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-109825/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109825

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			09/26/13 14:41	1
Methylene Chloride	ND		5.00	ug/L			09/26/13 14:41	1
Naphthalene	ND		5.00	ug/L			09/26/13 14:41	1
n-Butylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
N-Propylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
p-Isopropyltoluene	ND		1.00	ug/L			09/26/13 14:41	1
sec-Butylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
Styrene	ND		1.00	ug/L			09/26/13 14:41	1
tert-Butylbenzene	ND		1.00	ug/L			09/26/13 14:41	1
Tetrachloroethene	ND		1.00	ug/L			09/26/13 14:41	1
Toluene	ND		1.00	ug/L			09/26/13 14:41	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			09/26/13 14:41	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			09/26/13 14:41	1
Trichloroethene	ND		1.00	ug/L			09/26/13 14:41	1
Trichlorofluoromethane	ND		1.00	ug/L			09/26/13 14:41	1
Vinyl chloride	ND		1.00	ug/L			09/26/13 14:41	1
Xylenes, Total	ND		2.00	ug/L			09/26/13 14:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		09/26/13 14:41	1
4-mrofluorobenzene (Surr)	103		70 - 130		09/26/13 14:41	1
Dizrofluoroethane (Surr)	107		70 - 130		09/26/13 14:41	1
Toluene-d8 (Surr)	91		70 - 130		09/26/13 14:41	1

Lab Sample ID: LCS 490-109825/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 109825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	58.71		ug/L		117	74 - 135
1,1,1-Trichloroethane	50.0	54.90		ug/L		110	78 - 135
1,1,2,2-Tetrachloroethane	50.0	44.31		ug/L		89	69 - 131
1,1,2-Trichloroethane	50.0	45.56		ug/L		91	80 - 124
1,1-Dichloroethane	50.0	44.92		ug/L		90	78 - 125
Diisopropyl ether	50.0	39.16		ug/L		78	61 - 142
1,1-Dichloroethene	50.0	52.15		ug/L		104	79 - 124
1,1-Dichloropropene	50.0	49.30		ug/L		99	80 - 122
1,2,3-Trichlorobenzene	50.0	63.86		ug/L		128	62 - 133
1,2,3-Trichloropropane	50.0	44.78		ug/L		90	70 - 131
1,2,4-Trichlorobenzene	50.0	60.77		ug/L		122	63 - 133
1,2,4-Trimethylbenzene	50.0	55.96		ug/L		112	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	63.85	*	ug/L		128	54 - 125
1,2-Dibromoethane (EDB)	50.0	49.86		ug/L		100	80 - 129
1,2-Dichlorobenzene	50.0	50.62		ug/L		101	80 - 121
1,2-Dichloroethane	50.0	52.60		ug/L		105	77 - 121
1,2-Dichloropropane	50.0	41.81		ug/L		84	75 - 120
1,3,5-Trimethylbenzene	50.0	56.22		ug/L		112	77 - 127
1,3-Dichlorobenzene	50.0	51.34		ug/L		103	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109825/3

Matrix: Water

Analysis Batch: 109825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,3-Dichloropropane	50.0	43.35		ug/L		87	80 - 125
1,4-Dichlorobenzene	50.0	50.55		ug/L		101	80 - 120
2,2-Dichloropropane	50.0	55.47		ug/L		111	43 - 161
2-Butanone (MEK)	250	196.7		ug/L		79	62 - 133
2-Chlorotoluene	50.0	51.58		ug/L		103	75 - 126
2-Hexanone	250	197.4		ug/L		79	60 - 142
4-Chlorotoluene	50.0	52.30		ug/L		105	75 - 130
4-Methyl-2-pentanone (MIBK)	250	189.0		ug/L		76	60 - 137
Acetone	250	177.2		ug/L		71	54 - 145
Benzene	50.0	43.42		ug/L		87	80 - 121
Bromobenzene	50.0	47.63		ug/L		95	68 - 130
Bromochloromethane	50.0	48.09		ug/L		96	78 - 129
Bromodichloromethane	50.0	57.80		ug/L		116	75 - 129
Bromoform	50.0	57.26		ug/L		115	46 - 145
Bromomethane	50.0	39.24		ug/L		78	41 - 150
Carbon disulfide	50.0	49.27		ug/L		99	77 - 126
Carbon tetrachloride	50.0	60.58		ug/L		121	64 - 147
Chlorobenzene	50.0	47.46		ug/L		95	80 - 120
Chlorodibromomethane	50.0	59.08		ug/L		118	69 - 133
Chloroethane	50.0	41.55		ug/L		83	72 - 120
Chloroform	50.0	47.57		ug/L		95	73 - 129
Chloromethane	50.0	41.57		ug/L		83	12 - 150
cis-1,2-Dichloroethene	50.0	48.82		ug/L		98	76 - 125
cis-1,3-Dichloropropene	50.0	52.68		ug/L		105	74 - 140
Dibromomethane	50.0	50.48		ug/L		101	71 - 125
Dichlorodifluoromethane	50.0	65.30	*	ug/L		131	37 - 127
Ethylbenzene	50.0	50.22		ug/L		100	80 - 130
Hexachlorobutadiene	50.0	70.36		ug/L		141	49 - 146
Isopropylbenzene	50.0	54.13		ug/L		108	80 - 141
Methyl tert-butyl ether	50.0	45.02		ug/L		90	72 - 133
Methylene Chloride	50.0	44.76		ug/L		90	79 - 123
Naphthalene	50.0	58.67		ug/L		117	62 - 138
n-Butylbenzene	50.0	53.03		ug/L		106	68 - 132
N-Propylbenzene	50.0	51.53		ug/L		103	75 - 129
p-Isopropyltoluene	50.0	55.33		ug/L		111	75 - 128
sec-Butylbenzene	50.0	54.94		ug/L		110	76 - 128
Styrene	50.0	50.77		ug/L		102	80 - 127
tert-Butylbenzene	50.0	57.54		ug/L		115	76 - 126
Tetrachloroethene	50.0	50.17		ug/L		100	80 - 126
Toluene	50.0	46.16		ug/L		92	80 - 126
trans-1,2-Dichloroethene	50.0	47.01		ug/L		94	79 - 126
trans-1,3-Dichloropropene	50.0	57.37		ug/L		115	63 - 134
Trichloroethene	50.0	51.13		ug/L		102	80 - 123
Trichlorofluoromethane	50.0	55.63		ug/L		111	65 - 124
Vinyl chloride	50.0	48.60		ug/L		97	68 - 120
Xylenes, Total	100	103.8		ug/L		104	80 - 132

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-109825/3

Matrix: Water

Analysis Batch: 109825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-mrof obluorozen6ene (Surr)	102		70 - 130
Dizrof obluorof ethane (Surr)	102		70 - 130
Toluene-dB (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-109825/4

Matrix: Water

Analysis Batch: 109825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	50.0	58.07		ug/L		116	74 - 135	1	16	
1,1,1-Trichloroethane	50.0	53.53		ug/L		107	78 - 135	3	17	
1,1,1,2-Tetrachloroethane	50.0	45.12		ug/L		90	69 - 131	2	20	
1,1,2-Trichloroethane	50.0	46.04		ug/L		92	80 - 124	1	15	
1,1-Dichloroethane	50.0	43.92		ug/L		88	78 - 125	2	17	
Diisopropyl ether	50.0	38.98		ug/L		78	61 - 142	0	50	
1,1-Dichloroethene	50.0	51.07		ug/L		102	79 - 124	2	17	
1,1-Dichloropropene	50.0	48.57		ug/L		97	80 - 122	1	17	
1,2,3-Trichlorobenzene	50.0	64.99		ug/L		130	62 - 133	2	25	
1,2,3-Trichloropropane	50.0	45.52		ug/L		91	70 - 131	2	19	
1,2,4-Trichlorobenzene	50.0	62.36		ug/L		125	63 - 133	3	19	
1,2,4-Trimethylbenzene	50.0	56.35		ug/L		113	77 - 126	1	16	
1,2-Dibromo-3-Chloropropane	50.0	65.34	*	ug/L		131	54 - 125	2	24	
1,2-Dibromoethane (EDB)	50.0	50.22		ug/L		100	80 - 129	1	15	
1,2-Dichlorobenzene	50.0	51.63		ug/L		103	80 - 121	2	15	
1,2-Dichloroethane	50.0	52.08		ug/L		104	77 - 121	1	17	
1,2-Dichloropropane	50.0	41.27		ug/L		83	75 - 120	1	17	
1,3,5-Trimethylbenzene	50.0	56.08		ug/L		112	77 - 127	0	17	
1,3-Dichlorobenzene	50.0	52.07		ug/L		104	80 - 122	1	15	
1,3-Dichloropropane	50.0	43.40		ug/L		87	80 - 125	0	14	
1,4-Dichlorobenzene	50.0	50.78		ug/L		102	80 - 120	0	15	
2,2-Dichloropropane	50.0	54.29		ug/L		109	43 - 161	2	18	
2-Butanone (MEK)	250	199.5		ug/L		80	62 - 133	1	19	
2-Chlorotoluene	50.0	52.19		ug/L		104	75 - 126	1	17	
2-Hexanone	250	196.8		ug/L		79	60 - 142	0	15	
4-Chlorotoluene	50.0	52.01		ug/L		104	75 - 130	1	18	
4-Methyl-2-pentanone (MIBK)	250	190.3		ug/L		76	60 - 137	1	17	
Acetone	250	179.2		ug/L		72	54 - 145	1	21	
Benzene	50.0	43.47		ug/L		87	80 - 121	0	17	
Bromobenzene	50.0	47.74		ug/L		95	68 - 130	0	20	
Bromochloromethane	50.0	48.23		ug/L		96	78 - 129	0	17	
Bromodichloromethane	50.0	58.04		ug/L		116	75 - 129	0	18	
Bromoform	50.0	58.98		ug/L		118	46 - 145	3	16	
Bromomethane	50.0	40.78		ug/L		82	41 - 150	4	50	
Carbon disulfide	50.0	48.41		ug/L		97	77 - 126	2	21	
Carbon tetrachloride	50.0	59.39		ug/L		119	64 - 147	2	19	
Chlorobenzene	50.0	47.91		ug/L		96	80 - 120	1	14	
Chlorodibromomethane	50.0	59.56		ug/L		119	69 - 133	1	15	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-109825/4

Matrix: Water

Analysis Batch: 109825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Chloroethane	50.0	41.64		ug/L		83	72 - 120	0	20
Chloroform	50.0	47.31		ug/L		95	73 - 129	1	18
Chloromethane	50.0	39.78		ug/L		80	12 - 150	4	31
cis-1,2-Dichloroethene	50.0	48.64		ug/L		97	76 - 125	0	17
cis-1,3-Dichloropropene	50.0	51.93		ug/L		104	74 - 140	1	15
Dibromomethane	50.0	50.27		ug/L		101	71 - 125	0	16
Dichlorodifluoromethane	50.0	63.26		ug/L		127	37 - 127	3	18
Ethylbenzene	50.0	50.41		ug/L		101	80 - 130	0	15
Hexachlorobutadiene	50.0	70.48		ug/L		141	49 - 146	0	23
Isopropylbenzene	50.0	53.98		ug/L		108	80 - 141	0	16
Methyl tert-butyl ether	50.0	44.95		ug/L		90	72 - 133	0	16
Methylene Chloride	50.0	45.55		ug/L		91	79 - 123	2	17
Naphthalene	50.0	61.41		ug/L		123	62 - 138	5	26
n-Butylbenzene	50.0	52.08		ug/L		104	68 - 132	2	18
N-Propylbenzene	50.0	51.73		ug/L		103	75 - 129	0	17
p-Isopropyltoluene	50.0	55.77		ug/L		112	75 - 128	1	16
sec-Butylbenzene	50.0	54.84		ug/L		110	76 - 128	0	16
Styrene	50.0	50.62		ug/L		101	80 - 127	0	24
tert-Butylbenzene	50.0	57.26		ug/L		115	76 - 126	0	16
Tetrachloroethene	50.0	50.52		ug/L		101	80 - 126	1	16
Toluene	50.0	46.17		ug/L		92	80 - 126	0	15
trans-1,2-Dichloroethene	50.0	46.82		ug/L		94	79 - 126	0	16
trans-1,3-Dichloropropene	50.0	56.90		ug/L		114	63 - 134	1	14
Trichloroethene	50.0	50.08		ug/L		100	80 - 123	2	17
Trichlorofluoromethane	50.0	53.18		ug/L		106	65 - 124	5	18
Vinyl chloride	50.0	47.23		ug/L		94	68 - 120	3	17
Xylenes, Total	100	103.6		ug/L		104	80 - 132	0	15

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-mrofluorobenzene (Surr)	104		70 - 130
Dizrofluoroethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-107928/1-A

Matrix: Water

Analysis Batch: 108017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107928

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,2,4-Trichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,2,4-Trichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,2-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,2-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,3-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,3-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1,4-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-107928/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 108019

Prep Batch: 107928

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,4-Dichlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
1-Methylnaphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
1-Methylnaphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4,5-Trichlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4,6-Trichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dichlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dimethylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dimethylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dinitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dinitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,4-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,6-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2,6-Dinitrotoluene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Chloronaphthalene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Chloronaphthalene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Chlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Chlorophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Methylnaphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Methylnaphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Nitrophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
2-Nitrophenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3,3'-Dichlorobenzidine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3 & 4 Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3 & 4 Methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
3-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4,6-Dinitro-2-methylphenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Bromophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chloro-3-methylphenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chlorophenyl phenyl ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chloroaniline	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Chloroaniline	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Nitroaniline	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
4-Nitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1

TestAmerica Nashville



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-107928/1-A

Matrix: Water

Analysis Batch: 108019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107928

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Nitrophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Acenaphthylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Acenaphthylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Acenaphthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Acenaphthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[a]anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[a]anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[a]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[a]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[b]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[b]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[k]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Benzo[k]fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-chloroethoxy)methane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-chloroethyl)ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Bis(2-ethylhexyl) phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
bis (2-chloroisopropyl) ether	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Butyl benzyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Butyl benzyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Carbazole	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Carbazole	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Chrysene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Chrysene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Cresols	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Cresols	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dibenzofuran	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dibenzofuran	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Diethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Diethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dimethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Dimethyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Di-n-butyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Di-n-butyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Di-n-octyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Di-n-octyl phthalate	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Fluoranthene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Fluorene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-107928/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 108019

Prep Batch: 107928

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorobutadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorobutadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachlorocyclopentadiene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachloroethane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Hexachloroethane	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Isophorone	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Isophorone	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Naphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Naphthalene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Nitrobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Nitrobenzene	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
N-Nitrosodi-n-propylamine	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Pentachlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Pentachlorophenol	ND		25.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Phenanthrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Phenanthrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Phenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Phenol	ND		10.0	ug/L		09/18/13 10:05	09/18/13 15:58	1
Pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1
Pyrene	ND		2.00	ug/L		09/18/13 10:05	09/18/13 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,-Trizrof ophenol (Surr)	73		10 - 120	09/18/13 10:05	09/18/13 18:58	1
2,4,-Trizrof ophenol (Surr)	73		10 - 120	09/18/13 10:05	09/18/13 18:58	1
2-Fluoroziphenyl (Surr)	: 4		29 - 120	09/18/13 10:05	09/18/13 18:58	1
2-Fluoroziphenyl (Surr)	: 4		29 - 120	09/18/13 10:05	09/18/13 18:58	1
2-Fluorophenol (Surr)	38		10 - 120	09/18/13 10:05	09/18/13 18:58	1
2-Fluorophenol (Surr)	38		10 - 120	09/18/13 10:05	09/18/13 18:58	1
Nitrozen6ene-d8 (Surr)	: 8		27 - 120	09/18/13 10:05	09/18/13 18:58	1
Nitrozen6ene-d8 (Surr)	: 8		27 - 120	09/18/13 10:05	09/18/13 18:58	1
Phenol-d8 (Surr)	19		10 - 120	09/18/13 10:05	09/18/13 18:58	1
Phenol-d8 (Surr)	19		10 - 120	09/18/13 10:05	09/18/13 18:58	1
Terphenyl-d14 (Surr)	B8		13 - 120	09/18/13 10:05	09/18/13 18:58	1
Terphenyl-d14 (Surr)	B8		13 - 120	09/18/13 10:05	09/18/13 18:58	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107928/2-A

Matrix: Water

Analysis Batch: 108017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	31.02		ug/L		62	30 - 120
1,2,4-Trichlorobenzene	50.0	31.02		ug/L		62	30 - 120
1,2-Dichlorobenzene	50.0	27.89		ug/L		56	32 - 120
1,2-Dichlorobenzene	50.0	27.89		ug/L		56	32 - 120
1,3-Dichlorobenzene	50.0	27.68		ug/L		55	32 - 120
1,3-Dichlorobenzene	50.0	27.68		ug/L		55	32 - 120
1,4-Dichlorobenzene	50.0	29.58		ug/L		59	31 - 120
1,4-Dichlorobenzene	50.0	29.58		ug/L		59	31 - 120
1-Methylnaphthalene	50.0	36.02		ug/L		72	36 - 120
1-Methylnaphthalene	50.0	36.02		ug/L		72	36 - 120
2,4,5-Trichlorophenol	50.0	40.17		ug/L		80	40 - 129
2,4,5-Trichlorophenol	50.0	40.17		ug/L		80	40 - 129
2,4,6-Trichlorophenol	50.0	42.24		ug/L		84	39 - 135
2,4,6-Trichlorophenol	50.0	42.24		ug/L		84	39 - 135
2,4-Dichlorophenol	50.0	37.64		ug/L		75	38 - 120
2,4-Dichlorophenol	50.0	37.64		ug/L		75	38 - 120
2,4-Dimethylphenol	50.0	41.13		ug/L		82	21 - 126
2,4-Dimethylphenol	50.0	41.13		ug/L		82	21 - 126
2,4-Dinitrophenol	100	72.21		ug/L		72	20 - 150
2,4-Dinitrophenol	100	72.21		ug/L		72	20 - 150
2,4-Dinitrotoluene	50.0	40.62		ug/L		81	46 - 132
2,4-Dinitrotoluene	50.0	40.62		ug/L		81	46 - 132
2,6-Dinitrotoluene	50.0	40.82		ug/L		82	54 - 128
2,6-Dinitrotoluene	50.0	40.82		ug/L		82	54 - 128
2-Chloronaphthalene	50.0	37.75		ug/L		75	39 - 120
2-Chloronaphthalene	50.0	37.75		ug/L		75	39 - 120
2-Chlorophenol	50.0	34.53		ug/L		69	40 - 120
2-Chlorophenol	50.0	34.53		ug/L		69	40 - 120
2-Methylnaphthalene	50.0	35.09		ug/L		70	31 - 120
2-Methylnaphthalene	50.0	35.09		ug/L		70	31 - 120
2-Methylphenol	50.0	34.71		ug/L		69	38 - 120
2-Methylphenol	50.0	34.71		ug/L		69	38 - 120
2-Nitroaniline	50.0	42.16		ug/L		84	46 - 131
2-Nitroaniline	50.0	42.16		ug/L		84	46 - 131
2-Nitrophenol	50.0	38.05		ug/L		76	32 - 120
2-Nitrophenol	50.0	38.05		ug/L		76	32 - 120
3,3'-Dichlorobenzidine	50.0	36.03		ug/L		72	46 - 129
3,3'-Dichlorobenzidine	50.0	36.03		ug/L		72	46 - 129
3 & 4 Methylphenol	50.0	30.59		ug/L		61	33 - 120
3 & 4 Methylphenol	50.0	30.59		ug/L		61	33 - 120
3-Nitroaniline	50.0	37.02		ug/L		74	54 - 121
3-Nitroaniline	50.0	37.02		ug/L		74	54 - 121
4,6-Dinitro-2-methylphenol	100	81.94		ug/L		82	19 - 150
4,6-Dinitro-2-methylphenol	100	81.94		ug/L		82	19 - 150
4-Bromophenyl phenyl ether	50.0	40.78		ug/L		82	47 - 127
4-Bromophenyl phenyl ether	50.0	40.78		ug/L		82	47 - 127
4-Chloro-3-methylphenol	50.0	37.04		ug/L		74	44 - 120
4-Chloro-3-methylphenol	50.0	37.04		ug/L		74	44 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107928/2-A

Matrix: Water

Analysis Batch: 108017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
4-Chlorophenyl phenyl ether	50.0	39.94		ug/L		80	50 - 120
4-Chlorophenyl phenyl ether	50.0	39.94		ug/L		80	50 - 120
4-Chloroaniline	50.0	39.14		ug/L		78	44 - 120
4-Chloroaniline	50.0	39.14		ug/L		78	44 - 120
4-Nitroaniline	50.0	39.90		ug/L		80	55 - 123
4-Nitroaniline	50.0	39.90		ug/L		80	55 - 123
4-Nitrophenol	100	25.42		ug/L		25	10 - 120
4-Nitrophenol	100	25.42		ug/L		25	10 - 120
Acenaphthylene	50.0	39.56		ug/L		79	48 - 120
Acenaphthylene	50.0	39.56		ug/L		79	48 - 120
Acenaphthene	50.0	38.90		ug/L		78	46 - 120
Acenaphthene	50.0	38.90		ug/L		78	46 - 120
Benzo[a]anthracene	50.0	40.02		ug/L		80	57 - 120
Benzo[a]anthracene	50.0	40.02		ug/L		80	57 - 120
Benzo[a]pyrene	50.0	37.61		ug/L		75	57 - 124
Benzo[a]pyrene	50.0	37.61		ug/L		75	57 - 124
Benzo[b]fluoranthene	50.0	38.26		ug/L		77	51 - 125
Benzo[b]fluoranthene	50.0	38.26		ug/L		77	51 - 125
Benzo[g,h,i]perylene	50.0	41.81		ug/L		84	51 - 123
Benzo[g,h,i]perylene	50.0	41.81		ug/L		84	51 - 123
Benzo[k]fluoranthene	50.0	38.18		ug/L		76	51 - 120
Benzo[k]fluoranthene	50.0	38.18		ug/L		76	51 - 120
Anthracene	50.0	41.56		ug/L		83	58 - 130
Anthracene	50.0	41.56		ug/L		83	58 - 130
Bis(2-chloroethoxy)methane	50.0	36.49		ug/L		73	44 - 120
Bis(2-chloroethoxy)methane	50.0	36.49		ug/L		73	44 - 120
Bis(2-chloroethyl)ether	50.0	37.34		ug/L		75	47 - 120
Bis(2-chloroethyl)ether	50.0	37.34		ug/L		75	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	44.62		ug/L		89	47 - 138
Bis(2-ethylhexyl) phthalate	50.0	44.62		ug/L		89	47 - 138
bis (2-chloroisopropyl) ether	50.0	23.48		ug/L		47	44 - 120
bis (2-chloroisopropyl) ether	50.0	23.48		ug/L		47	44 - 120
Butyl benzyl phthalate	50.0	41.19		ug/L		82	51 - 146
Butyl benzyl phthalate	50.0	41.19		ug/L		82	51 - 146
Carbazole	50.0	39.88		ug/L		80	54 - 123
Carbazole	50.0	39.88		ug/L		80	54 - 123
Chrysene	50.0	42.47		ug/L		85	55 - 120
Chrysene	50.0	42.47		ug/L		85	55 - 120
Cresols	100	65.30		ug/L		65	33 - 120
Dibenz(a,h)anthracene	50.0	41.85		ug/L		84	50 - 125
Dibenz(a,h)anthracene	50.0	41.85		ug/L		84	50 - 125
Dibenzofuran	50.0	39.53		ug/L		79	50 - 120
Dibenzofuran	50.0	39.53		ug/L		79	50 - 120
Diethyl phthalate	50.0	40.43		ug/L		81	54 - 128
Diethyl phthalate	50.0	40.43		ug/L		81	54 - 128
Dimethyl phthalate	50.0	39.39		ug/L		79	53 - 127
Dimethyl phthalate	50.0	39.39		ug/L		79	53 - 127
Di-n-butyl phthalate	50.0	40.98		ug/L		82	54 - 140



QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107928/2-A

Matrix: Water

Analysis Batch: 108019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	50.0	40.98		ug/L		82	54 - 140
Di-n-octyl phthalate	50.0	38.85		ug/L		78	50 - 142
Di-n-octyl phthalate	50.0	38.85		ug/L		78	50 - 142
Fluoranthene	50.0	40.40		ug/L		81	56 - 120
Fluoranthene	50.0	40.40		ug/L		81	56 - 120
Fluorene	50.0	40.57		ug/L		81	52 - 120
Fluorene	50.0	40.57		ug/L		81	52 - 120
Hexachlorobenzene	50.0	39.83		ug/L		80	48 - 131
Hexachlorobenzene	50.0	39.83		ug/L		80	48 - 131
Hexachlorobutadiene	50.0	30.29		ug/L		61	28 - 120
Hexachlorobutadiene	50.0	30.29		ug/L		61	28 - 120
Hexachlorocyclopentadiene	50.0	30.44		ug/L		61	17 - 120
Hexachlorocyclopentadiene	50.0	30.44		ug/L		61	17 - 120
Hexachloroethane	50.0	28.50		ug/L		57	30 - 120
Hexachloroethane	50.0	28.50		ug/L		57	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	39.75		ug/L		80	54 - 125
Indeno[1,2,3-cd]pyrene	50.0	39.75		ug/L		80	54 - 125
Isophorone	50.0	39.59		ug/L		79	47 - 120
Isophorone	50.0	39.59		ug/L		79	47 - 120
Naphthalene	50.0	33.70		ug/L		67	37 - 120
Naphthalene	50.0	33.70		ug/L		67	37 - 120
Nitrobenzene	50.0	38.81		ug/L		78	36 - 120
Nitrobenzene	50.0	38.81		ug/L		78	36 - 120
N-Nitrosodi-n-propylamine	50.0	39.99		ug/L		80	51 - 120
N-Nitrosodi-n-propylamine	50.0	39.99		ug/L		80	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	40.18		ug/L		80	58 - 149
n-Nitrosodiphenylamine(as diphenylamine)	50.0	40.18		ug/L		80	58 - 149
Pentachlorophenol	100	89.12		ug/L		89	21 - 150
Pentachlorophenol	100	89.12		ug/L		89	21 - 150
Phenanthrene	50.0	40.14		ug/L		80	56 - 120
Phenanthrene	50.0	40.14		ug/L		80	56 - 120
Phenol	50.0	14.92		ug/L		30	14 - 120
Phenol	50.0	14.92		ug/L		30	14 - 120
Pyrene	50.0	39.24		ug/L		78	53 - 129
Pyrene	50.0	39.24		ug/L		78	53 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,-Trizrof ophenol (Surr)	B1		10 - 120
2,4,-Trizrof ophenol (Surr)	B1		10 - 120
2-Fluoroziphenyl (Surr)	79		29 - 120
2-Fluoroziphenyl (Surr)	79		29 - 120
2-Fluorophenol (Surr)	48		10 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrozen6ene-d8 (Surr)	7B		27 - 120
Nitrozen6ene-d8 (Surr)	7B		27 - 120
Phenol-d8 (Surr)	27		10 - 120

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-107928/2-A
Matrix: Water
Analysis Batch: 108019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107928

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Phenol-d8 (Surr)	27		10 - 120
Terphenyl-d14 (Surr)	7B		13 - 120
Terphenyl-d14 (Surr)	7B		13 - 120

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-107436/28
Matrix: Water
Analysis Batch: 107436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			09/16/13 20:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Tribuorotoluene	: B		80 - 180		09/11/13 20:59	1

Lab Sample ID: LCS 490-107436/26
Matrix: Water
Analysis Batch: 107436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	1104		ug/L		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Tribuorotoluene	84		80 - 180

Lab Sample ID: LCSD 490-107436/27
Matrix: Water
Analysis Batch: 107436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1091		ug/L		109	70 - 130	1	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Tribuorotoluene	89		80 - 180

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-108013/1-A
Matrix: Water
Analysis Batch: 108143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108013

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		09/18/13 12:19	09/18/13 23:40	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

(Continued)

Lab Sample ID: MB 490-108013/1-A

Matrix: Water

Analysis Batch: 108143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108013

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	117		80 - 180	09/18/13 12:39	09/18/13 23:40	1

Lab Sample ID: LCS 490-108013/2-A

Matrix: Water

Analysis Batch: 108143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	819.7		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	137		80 - 180

Lab Sample ID: MB 490-108024/1-A

Matrix: Water

Analysis Batch: 108143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108024

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		09/18/13 12:44	09/19/13 03:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	: 7		80 - 180	09/18/13 12:44	09/19/13 03:48	1

Lab Sample ID: LCS 490-108024/2-A

Matrix: Water

Analysis Batch: 108143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1000	796.3		ug/L		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl (Surr)	137		80 - 180

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-109373/3

Matrix: Water

Analysis Batch: 109373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			09/24/13 14:24	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 490-109373/4

Matrix: Water

Analysis Batch: 109373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	47.27		mg/L		95	80 - 120

Lab Sample ID: LCSD 490-109373/5

Matrix: Water

Analysis Batch: 109373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	47.20		mg/L		94	80 - 120	0	20

Lab Sample ID: 490-35394-14 MS

Matrix: Water

Analysis Batch: 109373

Client Sample ID: OS-5N

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	74.9		50.0	120.1	E	mg/L		91	80 - 120

Lab Sample ID: 490-35394-14 MSD

Matrix: Water

Analysis Batch: 109373

Client Sample ID: OS-5N

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	74.9		50.0	127.2	E	mg/L		105	80 - 120	6	20

Lab Sample ID: MB 490-109829/3

Matrix: Water

Analysis Batch: 109829

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			09/26/13 10:56	1

Lab Sample ID: LCS 490-109829/4

Matrix: Water

Analysis Batch: 109829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.76		mg/L		98	80 - 120

Lab Sample ID: LCSD 490-109829/5

Matrix: Water

Analysis Batch: 109829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	48.26		mg/L		97	80 - 120	1	20

Lab Sample ID: MB 490-110200/3

Matrix: Water

Analysis Batch: 110200

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00	mg/L			09/27/13 02:32	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Lab Sample ID: LCS 490-110200/4
Matrix: Water
Analysis Batch: 110200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	55.57		mg/L		111	80 - 120

Lab Sample ID: LCSD 490-110200/5
Matrix: Water
Analysis Batch: 110200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	50.0	56.60		mg/L		113	80 - 120	2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-107536/1-A
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107536

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		09/17/13 07:49	09/17/13 16:48	1
Arsenic	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 16:48	1
Chromium	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 16:48	1
Copper	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 16:48	1
Iron	ND		0.100	mg/L		09/17/13 07:49	09/17/13 16:48	1
Lead	ND		0.00500	mg/L		09/17/13 07:49	09/17/13 16:48	1
Manganese	ND		0.0150	mg/L		09/17/13 07:49	09/17/13 16:48	1
Selenium	ND		0.0100	mg/L		09/17/13 07:49	09/17/13 16:48	1

Lab Sample ID: LCS 490-107536/2-A
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2.00	1.964		mg/L		98	80 - 120
Arsenic	0.0500	0.04690		mg/L		94	80 - 120
Chromium	0.200	0.2101		mg/L		105	80 - 120
Copper	0.250	0.2547		mg/L		102	80 - 120
Iron	1.00	1.024		mg/L		102	80 - 120
Lead	0.0500	0.05420		mg/L		108	80 - 120
Manganese	0.500	0.5337		mg/L		107	80 - 120
Selenium	0.0500	0.05160		mg/L		103	80 - 120

Lab Sample ID: LCSD 490-107536/3-A
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	2.00	2.038		mg/L		102	80 - 120	4	20
Arsenic	0.0500	0.04640		mg/L		93	80 - 120	1	20
Chromium	0.200	0.2112		mg/L		106	80 - 120	1	20
Copper	0.250	0.2526		mg/L		101	80 - 120	1	20
Iron	1.00	1.058		mg/L		106	80 - 120	3	20
Lead	0.0500	0.05530		mg/L		111	80 - 120	2	20
Manganese	0.500	0.5399		mg/L		108	80 - 120	1	20

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-107536/3-A
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.0500	0.05530		mg/L		111	80 - 120	7	20

Lab Sample ID: 490-35324-D-1-B MS
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.126		2.00	2.171		mg/L		102	75 - 125
Arsenic	0.0244		0.0500	0.07380		mg/L		99	75 - 125
Chromium	ND		0.200	0.2159		mg/L		108	75 - 125
Copper	ND		0.250	0.2647		mg/L		106	75 - 125
Iron	36.4		1.00	38.94	4	mg/L		250	75 - 125
Lead	ND		0.0500	0.05700		mg/L		114	75 - 125
Manganese	0.576		0.500	1.135		mg/L		112	75 - 125
Selenium	ND		0.0500	0.04700		mg/L		94	75 - 125

Lab Sample ID: 490-35324-D-1-C MSD
Matrix: Water
Analysis Batch: 107894

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 107536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.126		2.00	2.180		mg/L		103	75 - 125	0	20
Arsenic	0.0244		0.0500	0.07630		mg/L		104	75 - 125	3	20
Chromium	ND		0.200	0.2130		mg/L		107	75 - 125	1	20
Copper	ND		0.250	0.2636		mg/L		105	75 - 125	0	20
Iron	36.4		1.00	38.29	4	mg/L		185	75 - 125	2	20
Lead	ND		0.0500	0.05800		mg/L		116	75 - 125	2	20
Manganese	0.576		0.500	1.119		mg/L		109	75 - 125	1	20
Selenium	ND		0.0500	0.04820		mg/L		96	75 - 125	3	20

Lab Sample ID: MB 490-107887/1-A
Matrix: Water
Analysis Batch: 108163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107887

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.100	mg/L		09/18/13 08:35	09/18/13 23:18	1
Arsenic	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:18	1
Chromium	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:18	1
Copper	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:18	1
Iron	ND		0.100	mg/L		09/18/13 08:35	09/18/13 23:18	1
Lead	ND		0.00500	mg/L		09/18/13 08:35	09/18/13 23:18	1
Manganese	ND		0.0150	mg/L		09/18/13 08:35	09/18/13 23:18	1
Selenium	ND		0.0100	mg/L		09/18/13 08:35	09/18/13 23:18	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 490-107887/2-A

Matrix: Water

Analysis Batch: 108163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Aluminum	2.00	1.990		mg/L		100	80 - 120	
Arsenic	0.0500	0.05080		mg/L		102	80 - 120	
Chromium	0.200	0.2073		mg/L		104	80 - 120	
Copper	0.250	0.2563		mg/L		103	80 - 120	
Iron	1.00	1.057		mg/L		106	80 - 120	
Lead	0.0500	0.05400		mg/L		108	80 - 120	
Manganese	0.500	0.5298		mg/L		106	80 - 120	
Selenium	0.0500	0.05040		mg/L		101	80 - 120	

Lab Sample ID: LCSD 490-107887/3-A

Matrix: Water

Analysis Batch: 108163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107887

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Aluminum	2.00	1.974		mg/L		99	80 - 120	1	20	
Arsenic	0.0500	0.05140		mg/L		103	80 - 120	1	20	
Chromium	0.200	0.2073		mg/L		104	80 - 120	0	20	
Copper	0.250	0.2600		mg/L		104	80 - 120	1	20	
Iron	1.00	1.069		mg/L		107	80 - 120	1	20	
Lead	0.0500	0.05350		mg/L		107	80 - 120	1	20	
Manganese	0.500	0.5338		mg/L		107	80 - 120	1	20	
Selenium	0.0500	0.05370		mg/L		107	80 - 120	6	20	

Lab Sample ID: 440-56868-A-1-B MS

Matrix: Water

Analysis Batch: 108163

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Aluminum	ND		2.00	2.087		mg/L		100	75 - 125	
Arsenic	ND		0.0500	0.05580		mg/L		96	75 - 125	
Chromium	0.0162		0.200	0.2233		mg/L		104	75 - 125	
Copper	ND		0.250	0.2621		mg/L		105	75 - 125	
Iron	3.29		1.00	4.403		mg/L		111	75 - 125	
Lead	ND		0.0500	0.05530		mg/L		111	75 - 125	
Manganese	0.0244		0.500	0.5549		mg/L		106	75 - 125	
Selenium	ND		0.0500	0.05990		mg/L		120	75 - 125	

Lab Sample ID: 440-56868-A-1-C MSD

Matrix: Water

Analysis Batch: 108163

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Aluminum	ND		2.00	2.065		mg/L		99	75 - 125	1	20	
Arsenic	ND		0.0500	0.05940		mg/L		103	75 - 125	6	20	
Chromium	0.0162		0.200	0.2257		mg/L		105	75 - 125	1	20	
Copper	ND		0.250	0.2645		mg/L		106	75 - 125	1	20	
Iron	3.29		1.00	4.502		mg/L		121	75 - 125	2	20	
Lead	ND		0.0500	0.05520		mg/L		110	75 - 125	0	20	
Manganese	0.0244		0.500	0.5569		mg/L		107	75 - 125	0	20	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 440-56868-A-1-C MSD

Matrix: Water

Analysis Batch: 108163

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		0.0500	0.05570		mg/L		111	75 - 125	7	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

GC/MS VOA

Analysis Batch: 109436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-1	Trip Blank - 4301753	Total/NA	Water	8260B	
490-35394-2	MW-13 ISOC	Total/NA	Water	8260B	
490-35394-3	OR-10W	Total/NA	Water	8260B	
490-35394-4	OR-5W	Total/NA	Water	8260B	
490-35394-5	OR-3W	Total/NA	Water	8260B	
490-35394-6	OR-3S	Total/NA	Water	8260B	
490-35394-7	OR-5S	Total/NA	Water	8260B	
490-35394-8	OR-10S	Total/NA	Water	8260B	
490-35394-9	OS-25S	Total/NA	Water	8260B	
490-35394-10	OS-20S	Total/NA	Water	8260B	
490-35394-16	OS-10E	Total/NA	Water	8260B	
490-35892-A-5 MS	Matrix Spike	Total/NA	Water	8260B	
490-35892-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-109436/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-109436/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-109436/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 109825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-8	OR-10S	Total/NA	Water	8260B	
490-35394-9	OS-25S	Total/NA	Water	8260B	
490-35394-10	OS-20S	Total/NA	Water	8260B	
490-35394-11	OS-15S	Total/NA	Water	8260B	
490-35394-12	OS-10S	Total/NA	Water	8260B	
490-35394-13	OS-5S	Total/NA	Water	8260B	
490-35394-14	OS-5N	Total/NA	Water	8260B	
490-35394-15	OS-5E	Total/NA	Water	8260B	
490-35394-16	OS-10E	Total/NA	Water	8260B	
LCS 490-109825/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-109825/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-109825/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 107928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	3510C	
490-35394-3	OR-10W	Total/NA	Water	3510C	
490-35394-4	OR-5W	Total/NA	Water	3510C	
490-35394-5	OR-3W	Total/NA	Water	3510C	
490-35394-6	OR-3S	Total/NA	Water	3510C	
490-35394-7	OR-5S	Total/NA	Water	3510C	
490-35394-8	OR-10S	Total/NA	Water	3510C	
490-35394-9	OS-25S	Total/NA	Water	3510C	
490-35394-10	OS-20S	Total/NA	Water	3510C	
490-35394-11	OS-15S	Total/NA	Water	3510C	
490-35394-12	OS-10S	Total/NA	Water	3510C	
490-35394-13	OS-5S	Total/NA	Water	3510C	
490-35394-14	OS-5N	Total/NA	Water	3510C	
490-35394-15	OS-5E	Total/NA	Water	3510C	



QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

GC/MS Semi VOA (Continued)

Prep Batch: 107928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-16	OS-10E	Total/NA	Water	3510C	
LCS 490-107928/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-107928/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 108017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-107928/2-A	Lab Control Sample	Total/NA	Water	8270D	107928
MB 490-107928/1-A	Method Blank	Total/NA	Water	8270D	107928

Analysis Batch: 108019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	8270D	107928
490-35394-3	OR-10W	Total/NA	Water	8270D	107928
490-35394-4	OR-5W	Total/NA	Water	8270D	107928
490-35394-5	OR-3W	Total/NA	Water	8270D	107928
490-35394-6	OR-3S	Total/NA	Water	8270D	107928
490-35394-7	OR-5S	Total/NA	Water	8270D	107928
490-35394-8	OR-10S	Total/NA	Water	8270D	107928
490-35394-9	OS-25S	Total/NA	Water	8270D	107928
490-35394-10	OS-20S	Total/NA	Water	8270D	107928
490-35394-11	OS-15S	Total/NA	Water	8270D	107928
490-35394-12	OS-10S	Total/NA	Water	8270D	107928
490-35394-13	OS-5S	Total/NA	Water	8270D	107928
490-35394-14	OS-5N	Total/NA	Water	8270D	107928
490-35394-15	OS-5E	Total/NA	Water	8270D	107928
490-35394-16	OS-10E	Total/NA	Water	8270D	107928
LCS 490-107928/2-A	Lab Control Sample	Total/NA	Water	8270D	107928
MB 490-107928/1-A	Method Blank	Total/NA	Water	8270D	107928

Analysis Batch: 108338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-8	OR-10S	Total/NA	Water	8270D	107928
490-35394-9	OS-25S	Total/NA	Water	8270D	107928
490-35394-10	OS-20S	Total/NA	Water	8270D	107928
490-35394-16	OS-10E	Total/NA	Water	8270D	107928

GC VOA

Analysis Batch: 107436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	8015C	
490-35394-3	OR-10W	Total/NA	Water	8015C	
490-35394-4	OR-5W	Total/NA	Water	8015C	
490-35394-5	OR-3W	Total/NA	Water	8015C	
490-35394-6	OR-3S	Total/NA	Water	8015C	
490-35394-7	OR-5S	Total/NA	Water	8015C	
490-35394-8	OR-10S	Total/NA	Water	8015C	
490-35394-9	OS-25S	Total/NA	Water	8015C	
490-35394-10	OS-20S	Total/NA	Water	8015C	
490-35394-11	OS-15S	Total/NA	Water	8015C	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

GC VOA (Continued)

Analysis Batch: 107436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-12	OS-10S	Total/NA	Water	8015C	
490-35394-13	OS-5S	Total/NA	Water	8015C	
490-35394-14	OS-5N	Total/NA	Water	8015C	
490-35394-15	OS-5E	Total/NA	Water	8015C	
490-35394-16	OS-10E	Total/NA	Water	8015C	
LCS 490-107436/26	Lab Control Sample	Total/NA	Water	8015C	
LCS 490-107436/27	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-107436/28	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 108013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	3510C	
490-35394-3	OR-10W	Total/NA	Water	3510C	
490-35394-4	OR-5W	Total/NA	Water	3510C	
490-35394-5	OR-3W	Total/NA	Water	3510C	
490-35394-6	OR-3S	Total/NA	Water	3510C	
490-35394-7	OR-5S	Total/NA	Water	3510C	
490-35394-8	OR-10S	Total/NA	Water	3510C	
490-35394-9	OS-25S	Total/NA	Water	3510C	
490-35394-10	OS-20S	Total/NA	Water	3510C	
490-35394-11	OS-15S	Total/NA	Water	3510C	
LCS 490-108013/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-108013/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 108024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-12	OS-10S	Total/NA	Water	3510C	
490-35394-13	OS-5S	Total/NA	Water	3510C	
490-35394-14	OS-5N	Total/NA	Water	3510C	
490-35394-15	OS-5E	Total/NA	Water	3510C	
490-35394-16	OS-10E	Total/NA	Water	3510C	
LCS 490-108024/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-108024/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 108143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	8015C	108013
490-35394-3	OR-10W	Total/NA	Water	8015C	108013
490-35394-4	OR-5W	Total/NA	Water	8015C	108013
490-35394-5	OR-3W	Total/NA	Water	8015C	108013
490-35394-6	OR-3S	Total/NA	Water	8015C	108013
490-35394-7	OR-5S	Total/NA	Water	8015C	108013
490-35394-8	OR-10S	Total/NA	Water	8015C	108013
490-35394-9	OS-25S	Total/NA	Water	8015C	108013
490-35394-10	OS-20S	Total/NA	Water	8015C	108013
490-35394-11	OS-15S	Total/NA	Water	8015C	108013
490-35394-12	OS-10S	Total/NA	Water	8015C	108024
490-35394-13	OS-5S	Total/NA	Water	8015C	108024

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

GC Semi VOA (Continued)

Analysis Batch: 108143 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-14	OS-5N	Total/NA	Water	8015C	108024
490-35394-15	OS-5E	Total/NA	Water	8015C	108024
490-35394-16	OS-10E	Total/NA	Water	8015C	108024
LCS 490-108013/2-A	Lab Control Sample	Total/NA	Water	8015C	108013
LCS 490-108024/2-A	Lab Control Sample	Total/NA	Water	8015C	108024
MB 490-108013/1-A	Method Blank	Total/NA	Water	8015C	108013
MB 490-108024/1-A	Method Blank	Total/NA	Water	8015C	108024

HPLC/IC

Analysis Batch: 109373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-2	MW-13 ISOC	Total/NA	Water	9056A	
490-35394-3	OR-10W	Total/NA	Water	9056A	
490-35394-4	OR-5W	Total/NA	Water	9056A	
490-35394-6	OR-3S	Total/NA	Water	9056A	
490-35394-7	OR-5S	Total/NA	Water	9056A	
490-35394-8	OR-10S	Total/NA	Water	9056A	
490-35394-10	OS-20S	Total/NA	Water	9056A	
490-35394-13	OS-5S	Total/NA	Water	9056A	
490-35394-14	OS-5N	Total/NA	Water	9056A	
490-35394-14 MS	OS-5N	Total/NA	Water	9056A	
490-35394-14 MSD	OS-5N	Total/NA	Water	9056A	
490-35394-16	OS-10E	Total/NA	Water	9056A	
LCS 490-109373/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-109373/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-109373/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 109829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-9	OS-25S	Total/NA	Water	9056A	
490-35394-12	OS-10S	Total/NA	Water	9056A	
490-35394-15	OS-5E	Total/NA	Water	9056A	
LCS 490-109829/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-109829/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-109829/3	Method Blank	Total/NA	Water	9056A	

Analysis Batch: 110200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-5	OR-3W	Total/NA	Water	9056A	
490-35394-11	OS-15S	Total/NA	Water	9056A	
LCS 490-110200/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-110200/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-110200/3	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 107536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35324-D-1-B MS	Matrix Spike	Total/NA	Water	3010A	

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Metals (Continued)

Prep Batch: 107536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35324-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-35394-2	MW-13 ISOC	Total/NA	Water	3010A	
490-35394-3	OR-10W	Total/NA	Water	3010A	
490-35394-4	OR-5W	Total/NA	Water	3010A	
490-35394-5	OR-3W	Total/NA	Water	3010A	
490-35394-6	OR-3S	Total/NA	Water	3010A	
490-35394-7	OR-5S	Total/NA	Water	3010A	
490-35394-8	OR-10S	Total/NA	Water	3010A	
490-35394-9	OS-25S	Total/NA	Water	3010A	
490-35394-10	OS-20S	Total/NA	Water	3010A	
490-35394-11	OS-15S	Total/NA	Water	3010A	
490-35394-12	OS-10S	Total/NA	Water	3010A	
LCS 490-107536/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCS 490-107536/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-107536/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 107887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-56868-A-1-B MS	Matrix Spike	Total/NA	Water	3010A	
440-56868-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-35394-13	OS-5S	Total/NA	Water	3010A	
490-35394-14	OS-5N	Total/NA	Water	3010A	
490-35394-15	OS-5E	Total/NA	Water	3010A	
490-35394-16	OS-10E	Total/NA	Water	3010A	
LCS 490-107887/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCS 490-107887/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-107887/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 107894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35324-D-1-B MS	Matrix Spike	Total/NA	Water	6010C	107536
490-35324-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	107536
490-35394-2	MW-13 ISOC	Total/NA	Water	6010C	107536
490-35394-3	OR-10W	Total/NA	Water	6010C	107536
490-35394-6	OR-3S	Total/NA	Water	6010C	107536
490-35394-7	OR-5S	Total/NA	Water	6010C	107536
490-35394-9	OS-25S	Total/NA	Water	6010C	107536
490-35394-10	OS-20S	Total/NA	Water	6010C	107536
LCS 490-107536/2-A	Lab Control Sample	Total/NA	Water	6010C	107536
LCS 490-107536/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	107536
MB 490-107536/1-A	Method Blank	Total/NA	Water	6010C	107536

Analysis Batch: 108163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-56868-A-1-B MS	Matrix Spike	Total/NA	Water	6010C	107887
440-56868-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	107887
490-35394-2	MW-13 ISOC	Total/NA	Water	6010C	107536
490-35394-4	OR-5W	Total/NA	Water	6010C	107536
490-35394-5	OR-3W	Total/NA	Water	6010C	107536
490-35394-8	OR-10S	Total/NA	Water	6010C	107536
490-35394-11	OS-15S	Total/NA	Water	6010C	107536



QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Metals (Continued)

Analysis Batch: 108163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-35394-12	OS-10S	Total/NA	Water	6010C	107536
490-35394-13	OS-5S	Total/NA	Water	6010C	107887
490-35394-14	OS-5N	Total/NA	Water	6010C	107887
490-35394-15	OS-5E	Total/NA	Water	6010C	107887
490-35394-16	OS-10E	Total/NA	Water	6010C	107887
LCS 490-107887/2-A	Lab Control Sample	Total/NA	Water	6010C	107887
LCSD 490-107887/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	107887
MB 490-107887/1-A	Method Blank	Total/NA	Water	6010C	107887



Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: Trip Blank - 4301753

Lab Sample ID: 490-35394-1

Date Collected: 09/12/13 07:00

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 17:05	BJM	TAL NSH

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-35394-2

Date Collected: 09/12/13 08:10

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 17:33	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 18:37	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/16/13 21:09	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 00:41	JML	TAL NSH
Total/NA	Analysis	9056A		100	109373	09/24/13 15:21	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107894	09/17/13 18:06	DEB	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		2	108163	09/18/13 22:43	KDJ	TAL NSH

Client Sample ID: OR-10W

Lab Sample ID: 490-35394-3

Date Collected: 09/12/13 09:10

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 18:00	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 19:00	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/16/13 21:39	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 00:56	JML	TAL NSH
Total/NA	Analysis	9056A		100	109373	09/24/13 15:40	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107894	09/17/13 18:09	DEB	TAL NSH

Client Sample ID: OR-5W

Lab Sample ID: 490-35394-4

Date Collected: 09/12/13 10:10

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 18:28	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 19:23	BES	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5W

Lab Sample ID: 490-35394-4

Date Collected: 09/12/13 10:10

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	107436	09/16/13 22:09	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 01:12	JML	TAL NSH
Total/NA	Analysis	9056A		200	109373	09/24/13 15:59	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		10	108163	09/18/13 22:46	KDJ	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-35394-5

Date Collected: 09/12/13 10:50

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 18:55	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 19:45	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/16/13 22:39	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 01:27	JML	TAL NSH
Total/NA	Analysis	9056A		500	110200	09/27/13 04:39	HMT	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		10	108163	09/18/13 22:50	KDJ	TAL NSH

Client Sample ID: OR-3S

Lab Sample ID: 490-35394-6

Date Collected: 09/12/13 11:35

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 19:22	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 20:08	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/16/13 23:09	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 01:42	JML	TAL NSH
Total/NA	Analysis	9056A		50	109373	09/24/13 16:38	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107894	09/17/13 18:21	DEB	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OR-5S

Lab Sample ID: 490-35394-7

Date Collected: 09/12/13 12:15

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 19:50	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 20:31	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/16/13 23:39	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 01:58	JML	TAL NSH
Total/NA	Analysis	9056A		10	109373	09/24/13 16:57	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107894	09/17/13 18:24	DEB	TAL NSH

Client Sample ID: OR-10S

Lab Sample ID: 490-35394-8

Date Collected: 09/12/13 13:15

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 20:17	BJM	TAL NSH
Total/NA	Analysis	8260B		50	109825	09/26/13 17:27	BJM	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 20:53	BES	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		20	108338	09/19/13 13:40	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 00:09	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		5	108143	09/19/13 10:29	JML	TAL NSH
Total/NA	Analysis	9056A		200	109373	09/24/13 17:16	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		100	108163	09/18/13 22:54	KDJ	TAL NSH

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 20:45	BJM	TAL NSH
Total/NA	Analysis	8260B		10	109825	09/26/13 17:55	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 21:16	BES	TAL NSH
Total/NA	Analysis	8270D		10	108338	09/19/13 14:03	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 00:39	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		4	108143	09/19/13 10:44	JML	TAL NSH
Total/NA	Analysis	9056A		2	109829	09/26/13 12:13	HMT	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-25S

Lab Sample ID: 490-35394-9

Date Collected: 09/12/13 14:00

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	107894	09/17/13 18:45	DEB	TAL NSH

Client Sample ID: OS-20S

Lab Sample ID: 490-35394-10

Date Collected: 09/12/13 14:45

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 21:12	BJM	TAL NSH
Total/NA	Analysis	8260B		20	109825	09/26/13 18:22	BJM	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 21:39	BES	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		10	108338	09/19/13 14:26	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 01:09	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		5	108143	09/19/13 10:59	JML	TAL NSH
Total/NA	Analysis	9056A		5	109373	09/24/13 17:54	ASL	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		1	107894	09/17/13 18:48	DEB	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-35394-11

Date Collected: 09/12/13 15:30

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109825	09/26/13 15:08	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 22:01	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 01:39	GWM	TAL NSH
Total/NA	Prep	3510C			108013	09/18/13 12:19	RCH	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 02:59	JML	TAL NSH
Total/NA	Analysis	9056A		500	110200	09/27/13 05:00	HMT	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		100	108163	09/18/13 22:57	KDJ	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109825	09/26/13 15:36	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 22:24	BES	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-10S

Lab Sample ID: 490-35394-12

Date Collected: 09/12/13 16:20

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	107436	09/17/13 02:09	GWM	TAL NSH
Total/NA	Prep	3510C			108024	09/18/13 12:44	CG	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 04:15	JML	TAL NSH
Total/NA	Analysis	9056A		100	109829	09/26/13 12:51	HMT	TAL NSH
Total/NA	Prep	3010A			107536	09/17/13 07:49	NLI	TAL NSH
Total/NA	Analysis	6010C		10	108163	09/18/13 23:01	KDJ	TAL NSH

Client Sample ID: OS-5S

Lab Sample ID: 490-35394-13

Date Collected: 09/12/13 17:00

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109825	09/26/13 16:03	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 22:47	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 02:39	GWM	TAL NSH
Total/NA	Prep	3510C			108024	09/18/13 12:44	CG	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 04:30	JML	TAL NSH
Total/NA	Analysis	9056A		50	109373	09/24/13 19:30	ASL	TAL NSH
Total/NA	Prep	3010A			107887	09/18/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	108163	09/18/13 23:40	KDJ	TAL NSH

Client Sample ID: OS-5N

Lab Sample ID: 490-35394-14

Date Collected: 09/12/13 17:30

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109825	09/26/13 16:30	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 23:09	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 03:09	GWM	TAL NSH
Total/NA	Prep	3510C			108024	09/18/13 12:44	CG	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 04:45	JML	TAL NSH
Total/NA	Analysis	9056A		1	109373	09/24/13 19:49	ASL	TAL NSH
Total/NA	Prep	3010A			107887	09/18/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	108163	09/18/13 23:43	KDJ	TAL NSH

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Client Sample ID: OS-5E

Lab Sample ID: 490-35394-15

Date Collected: 09/12/13 18:05

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109825	09/26/13 17:00	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 23:32	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 03:39	GWM	TAL NSH
Total/NA	Prep	3510C			108024	09/18/13 12:44	CG	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 05:01	JML	TAL NSH
Total/NA	Analysis	9056A		1	109829	09/26/13 13:10	HMT	TAL NSH
Total/NA	Prep	3010A			107887	09/18/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	108163	09/18/13 23:47	KDJ	TAL NSH

Client Sample ID: OS-10E

Lab Sample ID: 490-35394-16

Date Collected: 09/12/13 18:35

Matrix: Water

Date Received: 09/14/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	109436	09/24/13 23:57	BJM	TAL NSH
Total/NA	Analysis	8260B		5	109825	09/26/13 18:49	BJM	TAL NSH
Total/NA	Prep	3510C			107928	09/18/13 10:05	CG	TAL NSH
Total/NA	Analysis	8270D		1	108019	09/18/13 23:54	BES	TAL NSH
Total/NA	Analysis	8270D		10	108338	09/19/13 14:49	BES	TAL NSH
Total/NA	Analysis	8015C		1	107436	09/17/13 04:09	GWM	TAL NSH
Total/NA	Prep	3510C			108024	09/18/13 12:44	CG	TAL NSH
Total/NA	Analysis	8015C		1	108143	09/19/13 05:16	JML	TAL NSH
Total/NA	Analysis	9056A		1	109373	09/24/13 20:46	ASL	TAL NSH
Total/NA	Prep	3010A			107887	09/18/13 08:35	NLI	TAL NSH
Total/NA	Analysis	6010C		1	108163	09/18/13 23:50	KDJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13090292

TestAmerica Job ID: 490-35394-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
South Carolina	State Program	4	84009 (001)	02-28-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Cresols



COOLER RECEIPT FORM



490-35394 Chain of Custody

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 2170 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES (YES) ..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES (YES) ..NO...NA

6. Were custody papers inside cooler? YES (NO) ..NA

I certify that I opened the cooler and answered questions 1-6 (initial) MDM

7. Were custody seals on containers: YES (NO) and Intact YES...NO... (NA)

Were these signed and dated correctly? YES...NO... (NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES (YES) ..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES (YES) ..NO...NA

12. Did all container labels and tags agree with custody papers? YES (YES) ..NO...NA

13a. Were VOA vials received? YES (NO) ..NA

b. Was there any observable headspace present in any VOA vial? YES...NO... (NA)

14. Was there a Trip Blank in this cooler? YES (NO) ..NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO. (NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO... (NA)

16. Was residual chlorine present? YES...NO... (NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES (YES) ..NO...NA

18. Did you sign the custody papers in the appropriate place? YES (YES) ..NO...NA

19. Were correct containers used for the analysis requested? YES (YES) ..NO...NA

20. Was sufficient amount of sample sent in each container? YES (YES) ..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES (NO) Was a NCM generated? YES (NO) ...#



COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On: 9/14/2013 @ 1000

1. Tracking # 3409 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 0.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____



COOLER RECEIPT FORM

Loc: 490 **tte**
35394



Cooler Received/Opened On 9/14/2013 @ 1000

490508

1. Tracking # 2181 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#





COOLER RECEIPT FORM

Check #
Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 3350 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ELA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# _____



COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 2018 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ELR

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____



COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 3534 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA

7. Were custody seals on containers: YES NO and intact YES...NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO NA

16. Was residual chlorine present? YES...NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO #





COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 3361 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 front
5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ELA

7. Were custody seals on containers: YES (NO) and intact YES...NO (NA)

Were these signed and dated correctly? YES...NO (NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES (NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO (NA)

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO (NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO (NA)

16. Was residual chlorine present? YES...NO (NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES (NO) #



COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 3372 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ECA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # AJH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..#

BIS = Broken in shipment
Cooler Receipt Form.doc





COOLER RECEIPT FORM

Loc: 490
35394

Cooler Received/Opened On 9/14/2013 @ 1000

1. Tracking # 3394 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EUA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # AJH

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO..NA

16. Was residual chlorine present? YES...NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#



Chain of Custody Record

TestAmerica Laboratory location: DW NPDES RCRA Other

Client Contact Company Name: Duke Energy / AMEC Address: 2801 Yorkmont Rd City/State/Zip: Charlotte, NC 28208 Phone: 704-357-8600 Project Name: Duke Energy - Spartanburg Project Number: 6228-12-0021 P O #		Client Project Manager: Andy Clark Telephone: 704-357-8600 Email: andy.clark@amec.com		Site Contact: Troy Holzschuh Telephone: 704-307-1233		Lab Contact: Candace Bonham Telephone:		COC No: 59274 1 of 2 COCs	
Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other <input type="checkbox"/>		Analysis Turnaround Time (in business days) <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N)		Composite (C/G) Grab		For Lab use only <input type="checkbox"/> Walk-in client <input type="checkbox"/> Lab pickup <input type="checkbox"/> Lab sampling To/SDG No:	
Method of Shipment/Carrier: Shipping/Tracking No:		Containers & Preservatives: HCl <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> NaOH <input type="checkbox"/> Uprts <input type="checkbox"/> Others:		Matrix: Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Sediment <input type="checkbox"/> Solid <input type="checkbox"/> Others:		Sample Date Sample Time		Sample Specific Notes / Special Instructions: Loc: 490 35394	
Sample Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Date/Time: 9/13/13 0940 Date/Time: 9/13/13 1000 Date/Time:		Company: JA Company: JA Company:	
Relinquished by: Troy Holzschuh Relinquished by: Candace Bonham Relinquished by:		Company: AMEC Company: JA Company:		Date/Time: 9-13-13 940 Date/Time: 9/13/13 1820 Date/Time:		Received by: Candace Bonham Received by: Candace Bonham Received in Laboratory by:		Company: JA Company: JA Company:	

TAL-0018-1 (04/10)

1.2, 0.4, 0.3, 0.4, 0.2, 0.2, 0.1, 0.1



Chain of Custody Record

TestAmerica Laboratory location: DW NPDES RCRA Other

Client Contact Company Name: <u>Duke Energy/AMEC</u> Address: <u>2801 Yorkmont Rd</u> City/State/Zip: <u>Charlotte, NC 28208</u> Phone: <u>704-357-8600</u> Project Name: <u>Duke Energy-Spartanburg</u> Project Number: <u>6228-12-0021</u> PO #		Site Contact Site Contact: <u>Troy L Holzschuh</u> Telephone: <u>704-357-8600</u> Analysis Turnaround Time (in RCS days) TAT if different from below <input type="checkbox"/> 5 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day Method of Shipment/Carrier: Shipping/Tracking No:		Client Project Manager Project Manager: <u>Andy Clark</u> Telephone: <u>704-357-8600</u> Email: <u>andy.clark@epamc.com</u>		Lab Contact Lab Contact: <u>Troy L Holzschuh</u> Telephone: For lab use only Walk-in client <input type="checkbox"/> Lab pickup <input type="checkbox"/> Lab sampling <input type="checkbox"/> LIMS/SDG No:		COC No: <u>59275</u> 2 of 2 COCs	
Sample Identification Sample Date Sample Time Sample ID 11 <u>05-15.5</u> 12 <u>05-10.5</u> 13 <u>05-5.5</u> 14 <u>05-5.N</u> 15 <u>05-5.E</u> 16 <u>05-10.E</u>		Matrix Air <input type="checkbox"/> <input type="checkbox"/> Aqueous <input type="checkbox"/> <input type="checkbox"/> Sediment <input type="checkbox"/> <input type="checkbox"/> Solid <input type="checkbox"/> <input type="checkbox"/> Other:		Containers & Preservatives H2SO4 <input type="checkbox"/> <input type="checkbox"/> HNO3 <input type="checkbox"/> <input type="checkbox"/> HCl <input type="checkbox"/> <input type="checkbox"/> NaOH <input type="checkbox"/> <input type="checkbox"/> ZnAc <input type="checkbox"/> <input type="checkbox"/> NaOH <input type="checkbox"/> <input type="checkbox"/> Tapes <input type="checkbox"/> <input type="checkbox"/> Other:		Filtered Sample (Y/N) VOC <input type="checkbox"/> <input type="checkbox"/> SVOC <input type="checkbox"/> <input type="checkbox"/> DRD <input type="checkbox"/> <input type="checkbox"/> GRO <input type="checkbox"/> <input type="checkbox"/> Metals (see instructions) <input type="checkbox"/> <input type="checkbox"/> Sulfate <input type="checkbox"/> <input type="checkbox"/>		Sample Specific Notes / Special Instructions: Loc: 490 35394	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/OC Requirements & Comments:		Date/Time: <u>9/13/13 9:40</u> Date/Time: <u>9/13/13 18:20</u> Date/Time:		Company: <u>AMEC</u> Company: <u>TA</u> Company:	
Relinquished by: <u>Troy L Holzschuh</u>		Relinquished by: <u>C Bonham</u>		Received by: <u>C Bonham</u>		Company: <u>TA</u>		Date/Time: <u>9/13/13 10:00</u>	

1.2, 0.6, 0.2, 0.4, 0.2, 0.2, 0.1, 0.1



Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-35394-1

Login Number: 35394

List Source: TestAmerica Nashville

List Number: 1

Creator: Huskey, Adam

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acct. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-37090-1
Client Project/Site: Pine Street MGP (Spartanburg) J13100149

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Lab Customer



Authorized for release by:
10/21/2013 3:27:40 PM

Shali Brown, Project Manager I
(615)301-5031
shali.brown@testamericainc.com

LINKS

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TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-37090-1	MW-13 ISOC	Water	10/03/13 10:50	10/05/13 08:15
490-37090-2	OR-5W	Water	10/03/13 11:45	10/05/13 08:15
490-37090-3	OR-3W	Water	10/03/13 12:35	10/05/13 08:15
490-37090-4	OR-3S	Water	10/03/13 13:20	10/05/13 08:15
490-37090-5	OR-5S	Water	10/03/13 14:15	10/05/13 08:15
490-37090-6	OR-10S	Water	10/03/13 15:30	10/05/13 08:15
490-37090-7	OS-15S	Water	10/03/13 16:15	10/05/13 08:15
490-37090-8	OS-10S	Water	10/03/13 17:00	10/05/13 08:15
490-37090-9	OS-10E	Water	10/03/13 18:00	10/05/13 08:15
490-37090-10	Trip Blank	Water	10/03/13 08:00	10/05/13 08:15



Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Job ID: 490-37090-1

Laboratory: TestAmerica Nashville

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Pine Street MGP (Spartanburg) J13100149

Report Number: 490-37090-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Nashville attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.5° C, 0.9° C, 1.2° C, 1.3° C and 2.0° C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-13 ISOC (490-37090-1), OR-5W (490-37090-2), OR-3W (490-37090-3), OR-3S (490-37090-4), OR-5S (490-37090-5), OR-10S (490-37090-6), OS-15S (490-37090-7), OS-10S (490-37090-8), OS-10E (490-37090-9) and Trip Blank (490-37090-10) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/14/2013 and 10/16/2013.

Dichlorodifluoromethane failed the recovery criteria high for LCS 490-114166/3. Dichlorodifluoromethane failed the recovery criteria high for LCS 490-114513/3. Dichlorodifluoromethane failed the recovery criteria high for LCS 490-114514/3. Dichlorodifluoromethane failed the recovery criteria high for LCSD 490-114166/4. Dichlorodifluoromethane failed the recovery criteria high for LCSD 490-114513/4. Dichlorodifluoromethane failed the recovery criteria high for LCSD 490-114514/4. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Several analytes failed the recovery criteria low for the MS of sample OR-3WMS (490-37090-3) in batch 490-114166. Several analytes failed the recovery criteria high. For the MSD of sample OR-3WMSD (490-37090-3) in batch 490-114166, Several analytes failed the

Case Narrative

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Job ID: 490-37090-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

recovery criteria low. Several analytes failed the recovery criteria high. Also, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene exceeded the RPD limit. This is attributed to matrix interferences.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 114514.

Sample OR-10S (490-37090-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC MS)

Samples MW-13 ISOC (490-37090-1), OR-5W (490-37090-2), OR-3W (490-37090-3), OR-3S (490-37090-4), OR-5S (490-37090-5), OR-10S (490-37090-6), OS-15S (490-37090-7), OS-10S (490-37090-8) and OS-10E (490-37090-9) were analyzed for semivolatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 10/09/2013 and analyzed on 10/10/2013 and 10/11/2013.

Sample OR-10S (490-37090-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 113169.

No difficulties were encountered during the SVOCs analysis. All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples MW-13 ISOC (490-37090-1), OR-5W (490-37090-2), OR-3W (490-37090-3), OR-3S (490-37090-4), OR-5S (490-37090-5), OR-10S (490-37090-6), OS-15S (490-37090-7), OS-10S (490-37090-8) and OS-10E (490-37090-9) were analyzed for gasoline range organics (GRO) in accordance with SW-846 Method 8015C. The samples were analyzed on 10/08/2013.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112604. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No difficulties were encountered during the GRO analysis. All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS (DRO)

Samples MW-13 ISOC (490-37090-1), OR-5W (490-37090-2), OR-3W (490-37090-3), OR-3S (490-37090-4), OR-5S (490-37090-5), OR-10S (490-37090-6), OS-15S (490-37090-7), OS-10S (490-37090-8) and OS-10E (490-37090-9) were analyzed for diesel range organics (DRO) in accordance with EPA SW-846 Method 8015C - DRO. The samples were prepared on 10/09/2013 and analyzed on 10/10/2013 and 10/11/2013.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Method(s) 8015C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112588 and 113096.

Method(s) 8015C: The following sample(s) was diluted due to the nature of the sample matrix: OR-10S (490-37090-6). Elevated reporting limits (RLs) are provided.

Sample OR-10S (490-37090-6)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analysis. All quality control parameters were within the acceptance limits.

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-37090-1

Date Collected: 10/03/13 10:50

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 15:44	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 15:44	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 15:44	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 15:44	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 15:44	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 15:44	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 15:44	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 15:44	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 15:44	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
1,2,4-Trimethylbenzene	5.92		1.00	ug/L			10/14/13 15:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 15:44	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 15:44	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 15:44	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 15:44	1
1,3,5-Trimethylbenzene	2.34		1.00	ug/L			10/14/13 15:44	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 15:44	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 15:44	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 15:44	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 15:44	1
2-Hexanone	ND		5.00	ug/L			10/14/13 15:44	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 15:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 15:44	1
Acetone	ND		5.00	ug/L			10/14/13 15:44	1
Benzene	13.6		1.00	ug/L			10/14/13 15:44	1
Bromobenzene	ND		1.00	ug/L			10/14/13 15:44	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 15:44	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 15:44	1
Bromoform	ND		1.00	ug/L			10/14/13 15:44	1
Bromomethane	ND		1.00	ug/L			10/14/13 15:44	1
Carbon disulfide	ND		1.00	ug/L			10/14/13 15:44	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 15:44	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 15:44	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 15:44	1
Chloroethane	ND		1.00	ug/L			10/14/13 15:44	1
Chloroform	1.98		1.00	ug/L			10/14/13 15:44	1
Chloromethane	ND		1.00	ug/L			10/14/13 15:44	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 15:44	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 15:44	1
Dibromomethane	ND		1.00	ug/L			10/14/13 15:44	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 15:44	1
Ethylbenzene	6.26		1.00	ug/L			10/14/13 15:44	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 15:44	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 15:44	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 15:44	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-37090-1

Date Collected: 10/03/13 10:50

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 15:44	1
Naphthalene	70.6		5.00	ug/L			10/14/13 15:44	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 15:44	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 15:44	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 15:44	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 15:44	1
Styrene	ND		1.00	ug/L			10/14/13 15:44	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 15:44	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 15:44	1
Toluene	2.19		1.00	ug/L			10/14/13 15:44	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 15:44	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 15:44	1
Trichloroethene	ND		1.00	ug/L			10/14/13 15:44	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 15:44	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 15:44	1
Xylenes, Total	10.2		2.00	ug/L			10/14/13 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/14/13 15:44	1
4-Bromofluorobenzene (Surr)	89		70 - 130		10/14/13 15:44	1
Dibromofluoromethane (Surr)	106		70 - 130		10/14/13 15:44	1
Toluene-d8 (Surr)	98		70 - 130		10/14/13 15:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.79		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Acenaphthylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Benzo[a]anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Benzo[a]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Phenanthrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Chrysene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Fluorene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1
Naphthalene	17.9		2.35	ug/L		10/09/13 15:15	10/10/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		29 - 120	10/09/13 15:15	10/10/13 14:21	1
Terphenyl-d14 (Surr)	43		13 - 120	10/09/13 15:15	10/10/13 14:21	1
Nitrobenzene-d5 (Surr)	54		27 - 120	10/09/13 15:15	10/10/13 14:21	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	108		100	ug/L			10/08/13 12:48	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-37090-1

Date Collected: 10/03/13 10:50

Matrix: Water

Date Received: 10/05/13 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		50 - 150		10/08/13 12:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	975		105	ug/L		10/09/13 13:44	10/10/13 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	106		50 - 150	10/09/13 13:44	10/10/13 14:05	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5W

Lab Sample ID: 490-37090-2

Date Collected: 10/03/13 11:45

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 16:11	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 16:11	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 16:11	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 16:11	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 16:11	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 16:11	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 16:11	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 16:11	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 16:11	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 16:11	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 16:11	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 16:11	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 16:11	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 16:11	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 16:11	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 16:11	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 16:11	1
2-Hexanone	ND		5.00	ug/L			10/14/13 16:11	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 16:11	1
Acetone	143		5.00	ug/L			10/14/13 16:11	1
Benzene	ND		1.00	ug/L			10/14/13 16:11	1
Bromobenzene	ND		1.00	ug/L			10/14/13 16:11	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 16:11	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 16:11	1
Bromoform	ND		1.00	ug/L			10/14/13 16:11	1
Bromomethane	ND		1.00	ug/L			10/14/13 16:11	1
Carbon disulfide	1.63		1.00	ug/L			10/14/13 16:11	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 16:11	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 16:11	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 16:11	1
Chloroethane	ND		1.00	ug/L			10/14/13 16:11	1
Chloroform	1.16		1.00	ug/L			10/14/13 16:11	1
Chloromethane	7.59		1.00	ug/L			10/14/13 16:11	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 16:11	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 16:11	1
Dibromomethane	ND		1.00	ug/L			10/14/13 16:11	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 16:11	1
Ethylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 16:11	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 16:11	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5W

Lab Sample ID: 490-37090-2

Date Collected: 10/03/13 11:45

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 16:11	1
Naphthalene	ND		5.00	ug/L			10/14/13 16:11	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 16:11	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
Styrene	ND		1.00	ug/L			10/14/13 16:11	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 16:11	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 16:11	1
Toluene	ND		1.00	ug/L			10/14/13 16:11	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 16:11	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 16:11	1
Trichloroethene	ND		1.00	ug/L			10/14/13 16:11	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 16:11	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 16:11	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/14/13 16:11	1
4-Bromofluorobenzene (Surr)	86		70 - 130		10/14/13 16:11	1
Dibromofluoromethane (Surr)	105		70 - 130		10/14/13 16:11	1
Toluene-d8 (Surr)	86		70 - 130		10/14/13 16:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Acenaphthylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Benzo[a]anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Benzo[a]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Phenanthrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Chrysene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Fluorene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1
Naphthalene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		29 - 120	10/09/13 15:15	10/10/13 14:48	1
Terphenyl-d14 (Surr)	69		13 - 120	10/09/13 15:15	10/10/13 14:48	1
Nitrobenzene-d5 (Surr)	78		27 - 120	10/09/13 15:15	10/10/13 14:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 13:18	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5W
Date Collected: 10/03/13 11:45
Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		50 - 150		10/08/13 13:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	448		111	ug/L		10/09/13 13:44	10/10/13 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	91		50 - 150	10/09/13 13:44	10/10/13 14:21	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3W
Date Collected: 10/03/13 12:35
Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 17:06	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 17:06	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 17:06	1
1,1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 17:06	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 17:06	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 17:06	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 17:06	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 17:06	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 17:06	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 17:06	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 17:06	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 17:06	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 17:06	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 17:06	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 17:06	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 17:06	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 17:06	1
2-Hexanone	ND		5.00	ug/L			10/14/13 17:06	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 17:06	1
Acetone	179		5.00	ug/L			10/14/13 17:06	1
Benzene	ND		1.00	ug/L			10/14/13 17:06	1
Bromobenzene	ND		1.00	ug/L			10/14/13 17:06	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 17:06	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 17:06	1
Bromoform	ND		1.00	ug/L			10/14/13 17:06	1
Bromomethane	ND		1.00	ug/L			10/14/13 17:06	1
Carbon disulfide	2.80		1.00	ug/L			10/14/13 17:06	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 17:06	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 17:06	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 17:06	1
Chloroethane	ND		1.00	ug/L			10/14/13 17:06	1
Chloroform	ND		1.00	ug/L			10/14/13 17:06	1
Chloromethane	2.29		1.00	ug/L			10/14/13 17:06	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 17:06	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 17:06	1
Dibromomethane	ND		1.00	ug/L			10/14/13 17:06	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 17:06	1
Ethylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 17:06	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 17:06	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3W

Lab Sample ID: 490-37090-3

Date Collected: 10/03/13 12:35

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 17:06	1
Naphthalene	ND		5.00	ug/L			10/14/13 17:06	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 17:06	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
Styrene	ND		1.00	ug/L			10/14/13 17:06	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 17:06	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 17:06	1
Toluene	ND		1.00	ug/L			10/14/13 17:06	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 17:06	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 17:06	1
Trichloroethene	ND		1.00	ug/L			10/14/13 17:06	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 17:06	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 17:06	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		10/14/13 17:06	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/14/13 17:06	1
Dibromofluoromethane (Surr)	105		70 - 130		10/14/13 17:06	1
Toluene-d8 (Surr)	98		70 - 130		10/14/13 17:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Acenaphthylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Benzo[a]anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Benzo[a]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Benzo[b]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Benzo[k]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Phenanthrene	18.4		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Chrysene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Fluorene	12.6		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1
Naphthalene	37.4		2.22	ug/L		10/09/13 15:15	10/10/13 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120	10/09/13 15:15	10/10/13 15:15	1
Terphenyl-d14 (Surr)	60		13 - 120	10/09/13 15:15	10/10/13 15:15	1
Nitrobenzene-d5 (Surr)	71		27 - 120	10/09/13 15:15	10/10/13 15:15	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 13:48	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3W
Date Collected: 10/03/13 12:35
Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150		10/08/13 13:48	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	1580		100	ug/L		10/09/13 13:44	10/10/13 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	106		50 - 150	10/09/13 13:44	10/10/13 14:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3S

Lab Sample ID: 490-37090-4

Date Collected: 10/03/13 13:20

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 17:39	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 17:39	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 17:39	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 17:39	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 17:39	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 17:39	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 17:39	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 17:39	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 17:39	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 17:39	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 17:39	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 17:39	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 17:39	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 17:39	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 17:39	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 17:39	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 17:39	1
2-Hexanone	ND		5.00	ug/L			10/14/13 17:39	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 17:39	1
Acetone	ND		5.00	ug/L			10/14/13 17:39	1
Benzene	ND		1.00	ug/L			10/14/13 17:39	1
Bromobenzene	ND		1.00	ug/L			10/14/13 17:39	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 17:39	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 17:39	1
Bromoform	ND		1.00	ug/L			10/14/13 17:39	1
Bromomethane	ND		1.00	ug/L			10/14/13 17:39	1
Carbon disulfide	ND		1.00	ug/L			10/14/13 17:39	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 17:39	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 17:39	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 17:39	1
Chloroethane	ND		1.00	ug/L			10/14/13 17:39	1
Chloroform	ND		1.00	ug/L			10/14/13 17:39	1
Chloromethane	ND		1.00	ug/L			10/14/13 17:39	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 17:39	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 17:39	1
Dibromomethane	ND		1.00	ug/L			10/14/13 17:39	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 17:39	1
Ethylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 17:39	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 17:39	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3S

Lab Sample ID: 490-37090-4

Date Collected: 10/03/13 13:20

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 17:39	1
Naphthalene	ND		5.00	ug/L			10/14/13 17:39	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 17:39	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
Styrene	ND		1.00	ug/L			10/14/13 17:39	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 17:39	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 17:39	1
Toluene	ND		1.00	ug/L			10/14/13 17:39	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 17:39	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 17:39	1
Trichloroethene	ND		1.00	ug/L			10/14/13 17:39	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 17:39	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 17:39	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/14/13 17:39	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/14/13 17:39	1
Dibromofluoromethane (Surr)	106		70 - 130		10/14/13 17:39	1
Toluene-d8 (Surr)	97		70 - 130		10/14/13 17:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Acenaphthylene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Anthracene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Benzo[a]anthracene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Benzo[a]pyrene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Benzo[b]fluoranthene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Benzo[g,h,i]perylene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Benzo[k]fluoranthene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Pyrene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Phenanthrene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Chrysene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Dibenz(a,h)anthracene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Fluoranthene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Fluorene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Indeno[1,2,3-cd]pyrene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1
Naphthalene	ND		2.17	ug/L		10/09/13 15:15	10/10/13 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	58		29 - 120	10/09/13 15:15	10/10/13 15:42	1
Terphenyl-d14 (Surr)	53		13 - 120	10/09/13 15:15	10/10/13 15:42	1
Nitrobenzene-d5 (Surr)	61		27 - 120	10/09/13 15:15	10/10/13 15:42	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 14:18	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-3S
Date Collected: 10/03/13 13:20
Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150		10/08/13 14:18	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	345		100	ug/L		10/09/13 13:44	10/10/13 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	85		50 - 150	10/09/13 13:44	10/10/13 14:51	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5S

Lab Sample ID: 490-37090-5

Date Collected: 10/03/13 14:15

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 18:06	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 18:06	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 18:06	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 18:06	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 18:06	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 18:06	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 18:06	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 18:06	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
1,2,4-Trimethylbenzene	3.22		1.00	ug/L			10/14/13 18:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 18:06	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 18:06	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 18:06	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 18:06	1
1,3,5-Trimethylbenzene	1.40		1.00	ug/L			10/14/13 18:06	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 18:06	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 18:06	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 18:06	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 18:06	1
2-Hexanone	ND		5.00	ug/L			10/14/13 18:06	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 18:06	1
Acetone	ND		5.00	ug/L			10/14/13 18:06	1
Benzene	ND		1.00	ug/L			10/14/13 18:06	1
Bromobenzene	ND		1.00	ug/L			10/14/13 18:06	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 18:06	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 18:06	1
Bromoform	ND		1.00	ug/L			10/14/13 18:06	1
Bromomethane	ND		1.00	ug/L			10/14/13 18:06	1
Carbon disulfide	ND		1.00	ug/L			10/14/13 18:06	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 18:06	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 18:06	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 18:06	1
Chloroethane	ND		1.00	ug/L			10/14/13 18:06	1
Chloroform	ND		1.00	ug/L			10/14/13 18:06	1
Chloromethane	ND		1.00	ug/L			10/14/13 18:06	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 18:06	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 18:06	1
Dibromomethane	ND		1.00	ug/L			10/14/13 18:06	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 18:06	1
Ethylbenzene	1.86		1.00	ug/L			10/14/13 18:06	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 18:06	1
Isopropylbenzene	1.03		1.00	ug/L			10/14/13 18:06	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 18:06	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5S

Lab Sample ID: 490-37090-5

Date Collected: 10/03/13 14:15

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 18:06	1
Naphthalene	5.98		5.00	ug/L			10/14/13 18:06	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 18:06	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 18:06	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 18:06	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 18:06	1
Styrene	ND		1.00	ug/L			10/14/13 18:06	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 18:06	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 18:06	1
Toluene	ND		1.00	ug/L			10/14/13 18:06	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 18:06	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 18:06	1
Trichloroethene	ND		1.00	ug/L			10/14/13 18:06	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 18:06	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 18:06	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				10/14/13 18:06	1
4-Bromofluorobenzene (Surr)	89		70 - 130				10/14/13 18:06	1
Dibromofluoromethane (Surr)	105		70 - 130				10/14/13 18:06	1
Toluene-d8 (Surr)	99		70 - 130				10/14/13 18:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Acenaphthylene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Anthracene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Benzo[a]anthracene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Benzo[a]pyrene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Benzo[b]fluoranthene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Benzo[g,h,i]perylene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Benzo[k]fluoranthene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Pyrene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Phenanthrene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Chrysene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Dibenz(a,h)anthracene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Fluoranthene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Fluorene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Indeno[1,2,3-cd]pyrene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Naphthalene	ND		2.11	ug/L		10/09/13 15:15	10/10/13 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		29 - 120			10/09/13 15:15	10/10/13 16:09	1
Terphenyl-d14 (Surr)	58		13 - 120			10/09/13 15:15	10/10/13 16:09	1
Nitrobenzene-d5 (Surr)	61		27 - 120			10/09/13 15:15	10/10/13 16:09	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 14:49	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5S

Lab Sample ID: 490-37090-5

Date Collected: 10/03/13 14:15

Matrix: Water

Date Received: 10/05/13 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		50 - 150		10/08/13 14:49	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	630		100	ug/L		10/09/13 13:44	10/10/13 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	79		50 - 150	10/09/13 13:44	10/10/13 15:06	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-10S

Lab Sample ID: 490-37090-6

Date Collected: 10/03/13 15:30

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 18:33	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 18:33	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 18:33	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 18:33	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 18:33	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 18:33	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 18:33	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 18:33	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 18:33	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
1,2,4-Trimethylbenzene	18.4		1.00	ug/L			10/14/13 18:33	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 18:33	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 18:33	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 18:33	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 18:33	1
1,3,5-Trimethylbenzene	4.51		1.00	ug/L			10/14/13 18:33	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 18:33	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 18:33	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 18:33	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 18:33	1
2-Hexanone	ND		5.00	ug/L			10/14/13 18:33	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 18:33	1
Acetone	194		5.00	ug/L			10/14/13 18:33	1
Benzene	10.1		1.00	ug/L			10/14/13 18:33	1
Bromobenzene	ND		1.00	ug/L			10/14/13 18:33	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 18:33	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 18:33	1
Bromoform	ND		1.00	ug/L			10/14/13 18:33	1
Bromomethane	ND		1.00	ug/L			10/14/13 18:33	1
Carbon disulfide	9.69		1.00	ug/L			10/14/13 18:33	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 18:33	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 18:33	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 18:33	1
Chloroethane	ND		1.00	ug/L			10/14/13 18:33	1
Chloroform	ND		1.00	ug/L			10/14/13 18:33	1
Chloromethane	5.46		1.00	ug/L			10/14/13 18:33	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 18:33	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 18:33	1
Dibromomethane	ND		1.00	ug/L			10/14/13 18:33	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 18:33	1
Ethylbenzene	12.5		1.00	ug/L			10/14/13 18:33	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 18:33	1
Isopropylbenzene	3.00		1.00	ug/L			10/14/13 18:33	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 18:33	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-10S

Lab Sample ID: 490-37090-6

Date Collected: 10/03/13 15:30

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 18:33	1
Naphthalene	938		50.0	ug/L			10/16/13 01:00	10
n-Butylbenzene	ND		1.00	ug/L			10/14/13 18:33	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 18:33	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 18:33	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 18:33	1
Styrene	ND		1.00	ug/L			10/14/13 18:33	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 18:33	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 18:33	1
Toluene	1.07		1.00	ug/L			10/14/13 18:33	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 18:33	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 18:33	1
Trichloroethene	ND		1.00	ug/L			10/14/13 18:33	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 18:33	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 18:33	1
Xylenes, Total	16.3		2.00	ug/L			10/14/13 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/14/13 18:33	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/16/13 01:00	10
4-Bromofluorobenzene (Surr)	89		70 - 130		10/14/13 18:33	1
4-Bromofluorobenzene (Surr)	93		70 - 130		10/16/13 01:00	10
Dibromofluoromethane (Surr)	106		70 - 130		10/14/13 18:33	1
Dibromofluoromethane (Surr)	102		70 - 130		10/16/13 01:00	10
Toluene-d8 (Surr)	98		70 - 130		10/14/13 18:33	1
Toluene-d8 (Surr)	98		70 - 130		10/16/13 01:00	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	15.3		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Acenaphthylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Benzo[a]anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Benzo[a]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Phenanthrene	5.17		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Chrysene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Fluorene	5.61		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 16:36	1
Naphthalene	311		11.8	ug/L		10/09/13 15:15	10/11/13 15:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	35		29 - 120	10/09/13 15:15	10/10/13 16:36	1
Terphenyl-d14 (Surr)	37		13 - 120	10/09/13 15:15	10/10/13 16:36	1
Nitrobenzene-d5 (Surr)	41		27 - 120	10/09/13 15:15	10/10/13 16:36	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-10S

Lab Sample ID: 490-37090-6

Date Collected: 10/03/13 15:30

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	264		100	ug/L			10/08/13 15:19	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	111		50 - 150				10/08/13 15:19	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	4650		471	ug/L		10/09/13 13:44	10/11/13 10:53	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl (Surr)	83		50 - 150			10/09/13 13:44	10/11/13 10:53	4



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-15S

Lab Sample ID: 490-37090-7

Date Collected: 10/03/13 16:15

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 06:57	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/16/13 06:57	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 06:57	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/16/13 06:57	1
1,1-Dichloroethane	ND		1.00	ug/L			10/16/13 06:57	1
Diisopropyl ether	ND		2.00	ug/L			10/16/13 06:57	1
1,1-Dichloroethene	ND		1.00	ug/L			10/16/13 06:57	1
1,1-Dichloropropene	ND		1.00	ug/L			10/16/13 06:57	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/16/13 06:57	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/16/13 06:57	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/16/13 06:57	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,2-Dichloroethane	ND		1.00	ug/L			10/16/13 06:57	1
1,2-Dichloropropane	ND		1.00	ug/L			10/16/13 06:57	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
1,3-Dichloropropane	ND		1.00	ug/L			10/16/13 06:57	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
2,2-Dichloropropane	ND		1.00	ug/L			10/16/13 06:57	1
2-Butanone (MEK)	ND		50.0	ug/L			10/16/13 06:57	1
2-Chlorotoluene	ND		1.00	ug/L			10/16/13 06:57	1
2-Hexanone	ND		5.00	ug/L			10/16/13 06:57	1
4-Chlorotoluene	ND		1.00	ug/L			10/16/13 06:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/16/13 06:57	1
Acetone	ND		5.00	ug/L			10/16/13 06:57	1
Benzene	ND		1.00	ug/L			10/16/13 06:57	1
Bromobenzene	ND		1.00	ug/L			10/16/13 06:57	1
Bromochloromethane	ND		1.00	ug/L			10/16/13 06:57	1
Bromodichloromethane	ND		1.00	ug/L			10/16/13 06:57	1
Bromoform	ND		1.00	ug/L			10/16/13 06:57	1
Bromomethane	ND		1.00	ug/L			10/16/13 06:57	1
Carbon disulfide	1.23		1.00	ug/L			10/16/13 06:57	1
Carbon tetrachloride	ND		1.00	ug/L			10/16/13 06:57	1
Chlorobenzene	ND		1.00	ug/L			10/16/13 06:57	1
Chlorodibromomethane	ND		1.00	ug/L			10/16/13 06:57	1
Chloroethane	ND		1.00	ug/L			10/16/13 06:57	1
Chloroform	2.21		1.00	ug/L			10/16/13 06:57	1
Chloromethane	ND		1.00	ug/L			10/16/13 06:57	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 06:57	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 06:57	1
Dibromomethane	ND		1.00	ug/L			10/16/13 06:57	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/16/13 06:57	1
Ethylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
Hexachlorobutadiene	ND		2.00	ug/L			10/16/13 06:57	1
Isopropylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/16/13 06:57	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-15S

Lab Sample ID: 490-37090-7

Date Collected: 10/03/13 16:15

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/16/13 06:57	1
Naphthalene	8.74		5.00	ug/L			10/16/13 06:57	1
n-Butylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
N-Propylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
p-Isopropyltoluene	ND		1.00	ug/L			10/16/13 06:57	1
sec-Butylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
Styrene	ND		1.00	ug/L			10/16/13 06:57	1
tert-Butylbenzene	ND		1.00	ug/L			10/16/13 06:57	1
Tetrachloroethene	ND		1.00	ug/L			10/16/13 06:57	1
Toluene	ND		1.00	ug/L			10/16/13 06:57	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 06:57	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 06:57	1
Trichloroethene	ND		1.00	ug/L			10/16/13 06:57	1
Trichlorofluoromethane	ND		1.00	ug/L			10/16/13 06:57	1
Vinyl chloride	ND		1.00	ug/L			10/16/13 06:57	1
Xylenes, Total	ND		2.00	ug/L			10/16/13 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/16/13 06:57	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/16/13 06:57	1
Dibromofluoromethane (Surr)	102		70 - 130		10/16/13 06:57	1
Toluene-d8 (Surr)	97		70 - 130		10/16/13 06:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Acenaphthylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Benzo[a]anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Benzo[a]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Benzo[b]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Benzo[k]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Phenanthrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Chrysene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Fluorene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1
Naphthalene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120	10/09/13 15:15	10/10/13 17:03	1
Terphenyl-d14 (Surr)	62		13 - 120	10/09/13 15:15	10/10/13 17:03	1
Nitrobenzene-d5 (Surr)	45		27 - 120	10/09/13 15:15	10/10/13 17:03	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 15:49	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-15S

Lab Sample ID: 490-37090-7

Date Collected: 10/03/13 16:15

Matrix: Water

Date Received: 10/05/13 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150		10/08/13 15:49	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	668		125	ug/L		10/09/13 13:44	10/10/13 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	95		50 - 150	10/09/13 13:44	10/10/13 15:52	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10S

Lab Sample ID: 490-37090-8

Date Collected: 10/03/13 17:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 07:24	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/16/13 07:24	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 07:24	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/16/13 07:24	1
1,1-Dichloroethane	ND		1.00	ug/L			10/16/13 07:24	1
Diisopropyl ether	ND		2.00	ug/L			10/16/13 07:24	1
1,1-Dichloroethene	ND		1.00	ug/L			10/16/13 07:24	1
1,1-Dichloropropene	ND		1.00	ug/L			10/16/13 07:24	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/16/13 07:24	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/16/13 07:24	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/16/13 07:24	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,2-Dichloroethane	ND		1.00	ug/L			10/16/13 07:24	1
1,2-Dichloropropane	ND		1.00	ug/L			10/16/13 07:24	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
1,3-Dichloropropane	ND		1.00	ug/L			10/16/13 07:24	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
2,2-Dichloropropane	ND		1.00	ug/L			10/16/13 07:24	1
2-Butanone (MEK)	ND		50.0	ug/L			10/16/13 07:24	1
2-Chlorotoluene	ND		1.00	ug/L			10/16/13 07:24	1
2-Hexanone	ND		5.00	ug/L			10/16/13 07:24	1
4-Chlorotoluene	ND		1.00	ug/L			10/16/13 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/16/13 07:24	1
Acetone	ND		5.00	ug/L			10/16/13 07:24	1
Benzene	ND		1.00	ug/L			10/16/13 07:24	1
Bromobenzene	ND		1.00	ug/L			10/16/13 07:24	1
Bromochloromethane	ND		1.00	ug/L			10/16/13 07:24	1
Bromodichloromethane	ND		1.00	ug/L			10/16/13 07:24	1
Bromoform	ND		1.00	ug/L			10/16/13 07:24	1
Bromomethane	ND		1.00	ug/L			10/16/13 07:24	1
Carbon disulfide	ND		1.00	ug/L			10/16/13 07:24	1
Carbon tetrachloride	ND		1.00	ug/L			10/16/13 07:24	1
Chlorobenzene	ND		1.00	ug/L			10/16/13 07:24	1
Chlorodibromomethane	ND		1.00	ug/L			10/16/13 07:24	1
Chloroethane	ND		1.00	ug/L			10/16/13 07:24	1
Chloroform	ND		1.00	ug/L			10/16/13 07:24	1
Chloromethane	ND		1.00	ug/L			10/16/13 07:24	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 07:24	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 07:24	1
Dibromomethane	ND		1.00	ug/L			10/16/13 07:24	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/16/13 07:24	1
Ethylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
Hexachlorobutadiene	ND		2.00	ug/L			10/16/13 07:24	1
Isopropylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/16/13 07:24	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10S

Lab Sample ID: 490-37090-8

Date Collected: 10/03/13 17:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/16/13 07:24	1
Naphthalene	12.7		5.00	ug/L			10/16/13 07:24	1
n-Butylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
N-Propylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
p-Isopropyltoluene	ND		1.00	ug/L			10/16/13 07:24	1
sec-Butylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
Styrene	ND		1.00	ug/L			10/16/13 07:24	1
tert-Butylbenzene	ND		1.00	ug/L			10/16/13 07:24	1
Tetrachloroethene	ND		1.00	ug/L			10/16/13 07:24	1
Toluene	ND		1.00	ug/L			10/16/13 07:24	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 07:24	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 07:24	1
Trichloroethene	ND		1.00	ug/L			10/16/13 07:24	1
Trichlorofluoromethane	ND		1.00	ug/L			10/16/13 07:24	1
Vinyl chloride	ND		1.00	ug/L			10/16/13 07:24	1
Xylenes, Total	ND		2.00	ug/L			10/16/13 07:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130				10/16/13 07:24	1
4-Bromofluorobenzene (Surr)	93		70 - 130				10/16/13 07:24	1
Dibromofluoromethane (Surr)	104		70 - 130				10/16/13 07:24	1
Toluene-d8 (Surr)	97		70 - 130				10/16/13 07:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.32		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Acenaphthylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Benzo[a]anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Benzo[a]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Benzo[b]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Benzo[g,h,i]perylene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Benzo[k]fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Phenanthrene	6.19		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Chrysene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Dibenz(a,h)anthracene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Fluoranthene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Fluorene	3.10		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Indeno[1,2,3-cd]pyrene	ND		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Naphthalene	3.28		2.22	ug/L		10/09/13 15:15	10/10/13 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120			10/09/13 15:15	10/10/13 17:30	1
Terphenyl-d14 (Surr)	55		13 - 120			10/09/13 15:15	10/10/13 17:30	1
Nitrobenzene-d5 (Surr)	48		27 - 120			10/09/13 15:15	10/10/13 17:30	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 16:19	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10S

Lab Sample ID: 490-37090-8

Date Collected: 10/03/13 17:00

Matrix: Water

Date Received: 10/05/13 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150		10/08/13 16:19	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	598		125	ug/L		10/09/13 13:44	10/10/13 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	100		50 - 150	10/09/13 13:44	10/10/13 15:37	1



Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10E

Lab Sample ID: 490-37090-9

Date Collected: 10/03/13 18:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 07:51	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/16/13 07:51	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 07:51	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/16/13 07:51	1
1,1-Dichloroethane	ND		1.00	ug/L			10/16/13 07:51	1
Diisopropyl ether	ND		2.00	ug/L			10/16/13 07:51	1
1,1-Dichloroethene	ND		1.00	ug/L			10/16/13 07:51	1
1,1-Dichloropropene	ND		1.00	ug/L			10/16/13 07:51	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/16/13 07:51	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/16/13 07:51	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/16/13 07:51	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,2-Dichloroethane	ND		1.00	ug/L			10/16/13 07:51	1
1,2-Dichloropropane	ND		1.00	ug/L			10/16/13 07:51	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
1,3-Dichloropropane	ND		1.00	ug/L			10/16/13 07:51	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
2,2-Dichloropropane	ND		1.00	ug/L			10/16/13 07:51	1
2-Butanone (MEK)	ND		50.0	ug/L			10/16/13 07:51	1
2-Chlorotoluene	ND		1.00	ug/L			10/16/13 07:51	1
2-Hexanone	ND		5.00	ug/L			10/16/13 07:51	1
4-Chlorotoluene	ND		1.00	ug/L			10/16/13 07:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/16/13 07:51	1
Acetone	ND		5.00	ug/L			10/16/13 07:51	1
Benzene	ND		1.00	ug/L			10/16/13 07:51	1
Bromobenzene	ND		1.00	ug/L			10/16/13 07:51	1
Bromochloromethane	ND		1.00	ug/L			10/16/13 07:51	1
Bromodichloromethane	ND		1.00	ug/L			10/16/13 07:51	1
Bromoform	ND		1.00	ug/L			10/16/13 07:51	1
Bromomethane	ND		1.00	ug/L			10/16/13 07:51	1
Carbon disulfide	ND		1.00	ug/L			10/16/13 07:51	1
Carbon tetrachloride	ND		1.00	ug/L			10/16/13 07:51	1
Chlorobenzene	ND		1.00	ug/L			10/16/13 07:51	1
Chlorodibromomethane	ND		1.00	ug/L			10/16/13 07:51	1
Chloroethane	ND		1.00	ug/L			10/16/13 07:51	1
Chloroform	ND		1.00	ug/L			10/16/13 07:51	1
Chloromethane	ND		1.00	ug/L			10/16/13 07:51	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 07:51	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 07:51	1
Dibromomethane	ND		1.00	ug/L			10/16/13 07:51	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/16/13 07:51	1
Ethylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
Hexachlorobutadiene	ND		2.00	ug/L			10/16/13 07:51	1
Isopropylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/16/13 07:51	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10E

Lab Sample ID: 490-37090-9

Date Collected: 10/03/13 18:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/16/13 07:51	1
Naphthalene	9.87		5.00	ug/L			10/16/13 07:51	1
n-Butylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
N-Propylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
p-Isopropyltoluene	ND		1.00	ug/L			10/16/13 07:51	1
sec-Butylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
Styrene	ND		1.00	ug/L			10/16/13 07:51	1
tert-Butylbenzene	ND		1.00	ug/L			10/16/13 07:51	1
Tetrachloroethene	ND		1.00	ug/L			10/16/13 07:51	1
Toluene	ND		1.00	ug/L			10/16/13 07:51	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 07:51	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 07:51	1
Trichloroethene	ND		1.00	ug/L			10/16/13 07:51	1
Trichlorofluoromethane	ND		1.00	ug/L			10/16/13 07:51	1
Vinyl chloride	ND		1.00	ug/L			10/16/13 07:51	1
Xylenes, Total	ND		2.00	ug/L			10/16/13 07:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/16/13 07:51	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/16/13 07:51	1
Dibromofluoromethane (Surr)	104		70 - 130		10/16/13 07:51	1
Toluene-d8 (Surr)	99		70 - 130		10/16/13 07:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Acenaphthylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Benzo[a]anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Benzo[a]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Benzo[b]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Benzo[g,h,i]perylene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Benzo[k]fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Phenanthrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Chrysene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Dibenz(a,h)anthracene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Fluoranthene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Fluorene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Indeno[1,2,3-cd]pyrene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1
Naphthalene	ND		2.35	ug/L		10/09/13 15:15	10/10/13 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	46		29 - 120	10/09/13 15:15	10/10/13 17:57	1
Terphenyl-d14 (Surr)	44		13 - 120	10/09/13 15:15	10/10/13 17:57	1
Nitrobenzene-d5 (Surr)	41		27 - 120	10/09/13 15:15	10/10/13 17:57	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 16:49	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10E

Lab Sample ID: 490-37090-9

Date Collected: 10/03/13 18:00

Matrix: Water

Date Received: 10/05/13 08:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		50 - 150		10/08/13 16:49	1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	152		111	ug/L		10/09/13 13:44	10/10/13 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	93		50 - 150	10/09/13 13:44	10/10/13 16:07	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-37090-10

Date Collected: 10/03/13 08:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 15:16	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 15:16	1
1,1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 15:16	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 15:16	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 15:16	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 15:16	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 15:16	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 15:16	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 15:16	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 15:16	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 15:16	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 15:16	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 15:16	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 15:16	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 15:16	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 15:16	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 15:16	1
2-Hexanone	ND		5.00	ug/L			10/14/13 15:16	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 15:16	1
Acetone	24.5		5.00	ug/L			10/14/13 15:16	1
Benzene	ND		1.00	ug/L			10/14/13 15:16	1
Bromobenzene	ND		1.00	ug/L			10/14/13 15:16	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 15:16	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 15:16	1
Bromoform	ND		1.00	ug/L			10/14/13 15:16	1
Bromomethane	ND		1.00	ug/L			10/14/13 15:16	1
Carbon disulfide	ND		1.00	ug/L			10/14/13 15:16	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 15:16	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 15:16	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 15:16	1
Chloroethane	ND		1.00	ug/L			10/14/13 15:16	1
Chloroform	ND		1.00	ug/L			10/14/13 15:16	1
Chloromethane	ND		1.00	ug/L			10/14/13 15:16	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 15:16	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 15:16	1
Dibromomethane	ND		1.00	ug/L			10/14/13 15:16	1
Dichlorodifluoromethane	ND *		1.00	ug/L			10/14/13 15:16	1
Ethylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 15:16	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 15:16	1

TestAmerica Nashville

Client Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-37090-10

Date Collected: 10/03/13 08:00

Matrix: Water

Date Received: 10/05/13 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00	ug/L			10/14/13 15:16	1
Naphthalene	ND		5.00	ug/L			10/14/13 15:16	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 15:16	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
Styrene	ND		1.00	ug/L			10/14/13 15:16	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 15:16	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 15:16	1
Toluene	ND		1.00	ug/L			10/14/13 15:16	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 15:16	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 15:16	1
Trichloroethene	ND		1.00	ug/L			10/14/13 15:16	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 15:16	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 15:16	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/14/13 15:16	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/14/13 15:16	1
Dibromofluoromethane (Surr)	107		70 - 130		10/14/13 15:16	1
Toluene-d8 (Surr)	97		70 - 130		10/14/13 15:16	1

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-114166/6

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 14:49	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/14/13 14:49	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/14/13 14:49	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/14/13 14:49	1
1,1-Dichloroethane	ND		1.00	ug/L			10/14/13 14:49	1
Diisopropyl ether	ND		2.00	ug/L			10/14/13 14:49	1
1,1-Dichloroethene	ND		1.00	ug/L			10/14/13 14:49	1
1,1-Dichloropropene	ND		1.00	ug/L			10/14/13 14:49	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/14/13 14:49	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/14/13 14:49	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/14/13 14:49	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,2-Dichloroethane	ND		1.00	ug/L			10/14/13 14:49	1
1,2-Dichloropropane	ND		1.00	ug/L			10/14/13 14:49	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
1,3-Dichloropropane	ND		1.00	ug/L			10/14/13 14:49	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
2,2-Dichloropropane	ND		1.00	ug/L			10/14/13 14:49	1
2-Butanone (MEK)	ND		50.0	ug/L			10/14/13 14:49	1
2-Chlorotoluene	ND		1.00	ug/L			10/14/13 14:49	1
2-Hexanone	ND		5.00	ug/L			10/14/13 14:49	1
4-Chlorotoluene	ND		1.00	ug/L			10/14/13 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/14/13 14:49	1
Acetone	ND		5.00	ug/L			10/14/13 14:49	1
Benzene	ND		1.00	ug/L			10/14/13 14:49	1
Bromobenzene	ND		1.00	ug/L			10/14/13 14:49	1
Bromochloromethane	ND		1.00	ug/L			10/14/13 14:49	1
Bromodichloromethane	ND		1.00	ug/L			10/14/13 14:49	1
Bromoform	ND		1.00	ug/L			10/14/13 14:49	1
Bromomethane	ND		1.00	ug/L			10/14/13 14:49	1
Carbon disulfide	ND		1.00	ug/L			10/14/13 14:49	1
Carbon tetrachloride	ND		1.00	ug/L			10/14/13 14:49	1
Chlorobenzene	ND		1.00	ug/L			10/14/13 14:49	1
Chlorodibromomethane	ND		1.00	ug/L			10/14/13 14:49	1
Chloroethane	ND		1.00	ug/L			10/14/13 14:49	1
Chloroform	ND		1.00	ug/L			10/14/13 14:49	1
Chloromethane	ND		1.00	ug/L			10/14/13 14:49	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 14:49	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 14:49	1
Dibromomethane	ND		1.00	ug/L			10/14/13 14:49	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/14/13 14:49	1
Ethylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
Hexachlorobutadiene	ND		2.00	ug/L			10/14/13 14:49	1
Isopropylbenzene	ND		1.00	ug/L			10/14/13 14:49	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-114166/6

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			10/14/13 14:49	1
Methylene Chloride	ND		5.00	ug/L			10/14/13 14:49	1
Naphthalene	ND		5.00	ug/L			10/14/13 14:49	1
n-Butylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
N-Propylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
p-Isopropyltoluene	ND		1.00	ug/L			10/14/13 14:49	1
sec-Butylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
Styrene	ND		1.00	ug/L			10/14/13 14:49	1
tert-Butylbenzene	ND		1.00	ug/L			10/14/13 14:49	1
Tetrachloroethene	ND		1.00	ug/L			10/14/13 14:49	1
Toluene	ND		1.00	ug/L			10/14/13 14:49	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/14/13 14:49	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/14/13 14:49	1
Trichloroethene	ND		1.00	ug/L			10/14/13 14:49	1
Trichlorofluoromethane	ND		1.00	ug/L			10/14/13 14:49	1
Vinyl chloride	ND		1.00	ug/L			10/14/13 14:49	1
Xylenes, Total	ND		2.00	ug/L			10/14/13 14:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 150		10/31/43 15:14/4:	1
4-mrofl obduorozen8ene (Surr)	BB		70 - 150		10/31/43 15:14/4:	1
Dizrof obduorof ethane (Surr)	109		70 - 150		10/31/43 15:14/4:	1
6oluene-dB (Surr)	: B		70 - 150		10/31/43 15:14/4:	1

Lab Sample ID: LCS 490-114166/3

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.86		ug/L		102	74 - 135
1,1,1-Trichloroethane	50.0	49.45		ug/L		99	78 - 135
1,1,2,2-Tetrachloroethane	50.0	51.05		ug/L		102	69 - 131
1,1,2-Trichloroethane	50.0	51.30		ug/L		103	80 - 124
1,1-Dichloroethane	50.0	49.40		ug/L		99	78 - 125
Diisopropyl ether	50.0	44.05		ug/L		88	61 - 142
1,1-Dichloroethene	50.0	52.36		ug/L		105	79 - 124
1,1-Dichloropropene	50.0	47.91		ug/L		96	80 - 122
1,2,3-Trichlorobenzene	50.0	49.71		ug/L		99	62 - 133
1,2,3-Trichloropropane	50.0	56.08		ug/L		112	70 - 131
1,2,4-Trichlorobenzene	50.0	47.52		ug/L		95	63 - 133
1,2,4-Trimethylbenzene	50.0	43.96		ug/L		88	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	53.56		ug/L		107	54 - 125
1,2-Dibromoethane (EDB)	50.0	52.60		ug/L		105	80 - 129
1,2-Dichlorobenzene	50.0	49.60		ug/L		99	80 - 121
1,2-Dichloroethane	50.0	49.96		ug/L		100	77 - 121
1,2-Dichloropropane	50.0	46.37		ug/L		93	75 - 120
1,3,5-Trimethylbenzene	50.0	44.85		ug/L		90	77 - 127
1,3-Dichlorobenzene	50.0	47.60		ug/L		95	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114166/3

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	49.81		ug/L		100	80 - 125
1,4-Dichlorobenzene	50.0	47.53		ug/L		95	80 - 120
2,2-Dichloropropane	50.0	47.65		ug/L		95	43 - 161
2-Butanone (MEK)	250	307.0		ug/L		123	62 - 133
2-Chlorotoluene	50.0	42.44		ug/L		85	75 - 126
2-Hexanone	250	275.6		ug/L		110	60 - 142
4-Chlorotoluene	50.0	43.17		ug/L		86	75 - 130
4-Methyl-2-pentanone (MIBK)	250	276.6		ug/L		111	60 - 137
Acetone	250	302.9		ug/L		121	54 - 145
Benzene	50.0	47.07		ug/L		94	80 - 121
Bromobenzene	50.0	42.37		ug/L		85	68 - 130
Bromochloromethane	50.0	53.86		ug/L		108	78 - 129
Bromodichloromethane	50.0	48.86		ug/L		98	75 - 129
Bromoform	50.0	58.33		ug/L		117	46 - 145
Bromomethane	50.0	46.49		ug/L		93	41 - 150
Carbon disulfide	50.0	47.02		ug/L		94	77 - 126
Carbon tetrachloride	50.0	52.32		ug/L		105	64 - 147
Chlorobenzene	50.0	47.73		ug/L		95	80 - 120
Chlorodibromomethane	50.0	53.91		ug/L		108	69 - 133
Chloroethane	50.0	58.00		ug/L		116	72 - 120
Chloroform	50.0	47.59		ug/L		95	73 - 129
Chloromethane	50.0	45.99		ug/L		92	12 - 150
cis-1,2-Dichloroethene	50.0	48.54		ug/L		97	76 - 125
cis-1,3-Dichloropropene	50.0	47.82		ug/L		96	74 - 140
Dibromomethane	50.0	53.32		ug/L		107	71 - 125
Dichlorodifluoromethane	50.0	85.09	*	ug/L		170	37 - 127
Ethylbenzene	50.0	45.13		ug/L		90	80 - 130
Hexachlorobutadiene	50.0	48.24		ug/L		96	49 - 146
Isopropylbenzene	50.0	47.04		ug/L		94	80 - 141
Methyl tert-butyl ether	50.0	49.89		ug/L		100	72 - 133
Methylene Chloride	50.0	49.17		ug/L		98	79 - 123
Naphthalene	50.0	51.48		ug/L		103	62 - 138
n-Butylbenzene	50.0	43.82		ug/L		88	68 - 132
N-Propylbenzene	50.0	43.36		ug/L		87	75 - 129
p-Isopropyltoluene	50.0	45.80		ug/L		92	75 - 128
sec-Butylbenzene	50.0	44.65		ug/L		89	76 - 128
Styrene	50.0	47.18		ug/L		94	80 - 127
tert-Butylbenzene	50.0	45.73		ug/L		91	76 - 126
Tetrachloroethene	50.0	51.50		ug/L		103	80 - 126
Toluene	50.0	44.78		ug/L		90	80 - 126
trans-1,2-Dichloroethene	50.0	47.73		ug/L		95	79 - 126
trans-1,3-Dichloropropene	50.0	49.07		ug/L		98	63 - 134
Trichloroethene	50.0	51.23		ug/L		102	80 - 123
Trichlorofluoromethane	50.0	55.88		ug/L		112	65 - 124
Vinyl chloride	50.0	57.15		ug/L		114	68 - 120
Xylenes, Total	100	89.14		ug/L		89	80 - 132

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114166/3

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	: 9		70 - 150
4-mrof obluorozen8ene (Surr)	: 2		70 - 150
Dizrof obluorof ethane (Surr)	104		70 - 150
6oluene-dB (Surr)	: B		70 - 150

Lab Sample ID: LCSD 490-114166/4

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.43		ug/L		101	74 - 135	1	16
1,1,1-Trichloroethane	50.0	47.91		ug/L		96	78 - 135	3	17
1,1,1,2-Tetrachloroethane	50.0	51.12		ug/L		102	69 - 131	0	20
1,1,2-Trichloroethane	50.0	51.10		ug/L		102	80 - 124	0	15
1,1-Dichloroethane	50.0	48.31		ug/L		97	78 - 125	2	17
Diisopropyl ether	50.0	43.05		ug/L		86	61 - 142	2	50
1,1-Dichloroethene	50.0	51.05		ug/L		102	79 - 124	3	17
1,1-Dichloropropene	50.0	46.90		ug/L		94	80 - 122	2	17
1,2,3-Trichlorobenzene	50.0	50.37		ug/L		101	62 - 133	1	25
1,2,3-Trichloropropane	50.0	57.16		ug/L		114	70 - 131	2	19
1,2,4-Trichlorobenzene	50.0	47.57		ug/L		95	63 - 133	0	19
1,2,4-Trimethylbenzene	50.0	44.26		ug/L		89	77 - 126	1	16
1,2-Dibromo-3-Chloropropane	50.0	55.31		ug/L		111	54 - 125	3	24
1,2-Dibromoethane (EDB)	50.0	52.95		ug/L		106	80 - 129	1	15
1,2-Dichlorobenzene	50.0	49.66		ug/L		99	80 - 121	0	15
1,2-Dichloroethane	50.0	49.52		ug/L		99	77 - 121	1	17
1,2-Dichloropropane	50.0	45.49		ug/L		91	75 - 120	2	17
1,3,5-Trimethylbenzene	50.0	45.13		ug/L		90	77 - 127	1	17
1,3-Dichlorobenzene	50.0	48.00		ug/L		96	80 - 122	1	15
1,3-Dichloropropane	50.0	49.46		ug/L		99	80 - 125	1	14
1,4-Dichlorobenzene	50.0	48.23		ug/L		96	80 - 120	1	15
2,2-Dichloropropane	50.0	46.17		ug/L		92	43 - 161	3	18
2-Butanone (MEK)	250	313.7		ug/L		125	62 - 133	2	19
2-Chlorotoluene	50.0	42.60		ug/L		85	75 - 126	0	17
2-Hexanone	250	280.6		ug/L		112	60 - 142	2	15
4-Chlorotoluene	50.0	43.37		ug/L		87	75 - 130	0	18
4-Methyl-2-pentanone (MIBK)	250	276.9		ug/L		111	60 - 137	0	17
Acetone	250	301.8		ug/L		121	54 - 145	0	21
Benzene	50.0	45.96		ug/L		92	80 - 121	2	17
Bromobenzene	50.0	42.42		ug/L		85	68 - 130	0	20
Bromochloromethane	50.0	53.05		ug/L		106	78 - 129	2	17
Bromodichloromethane	50.0	47.66		ug/L		95	75 - 129	2	18
Bromoform	50.0	58.76		ug/L		118	46 - 145	1	16
Bromomethane	50.0	48.01		ug/L		96	41 - 150	3	50
Carbon disulfide	50.0	46.33		ug/L		93	77 - 126	1	21
Carbon tetrachloride	50.0	50.48		ug/L		101	64 - 147	4	19
Chlorobenzene	50.0	47.53		ug/L		95	80 - 120	0	14
Chlorodibromomethane	50.0	53.30		ug/L		107	69 - 133	1	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-114166/4

Matrix: Water

Analysis Batch: 114166

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	56.23		ug/L		112	72 - 120	3	20	
Chloroform	50.0	46.15		ug/L		92	73 - 129	3	18	
Chloromethane	50.0	43.88		ug/L		88	12 - 150	5	31	
cis-1,2-Dichloroethene	50.0	47.72		ug/L		95	76 - 125	2	17	
cis-1,3-Dichloropropene	50.0	47.36		ug/L		95	74 - 140	1	15	
Dibromomethane	50.0	51.59		ug/L		103	71 - 125	3	16	
Dichlorodifluoromethane	50.0	84.07	*	ug/L		168	37 - 127	1	18	
Ethylbenzene	50.0	44.70		ug/L		89	80 - 130	1	15	
Hexachlorobutadiene	50.0	48.54		ug/L		97	49 - 146	1	23	
Isopropylbenzene	50.0	47.12		ug/L		94	80 - 141	0	16	
Methyl tert-butyl ether	50.0	48.51		ug/L		97	72 - 133	3	16	
Methylene Chloride	50.0	48.35		ug/L		97	79 - 123	2	17	
Naphthalene	50.0	52.32		ug/L		105	62 - 138	2	26	
n-Butylbenzene	50.0	43.95		ug/L		88	68 - 132	0	18	
N-Propylbenzene	50.0	43.74		ug/L		87	75 - 129	1	17	
p-Isopropyltoluene	50.0	45.81		ug/L		92	75 - 128	0	16	
sec-Butylbenzene	50.0	45.05		ug/L		90	76 - 128	1	16	
Styrene	50.0	47.68		ug/L		95	80 - 127	1	24	
tert-Butylbenzene	50.0	46.11		ug/L		92	76 - 126	1	16	
Tetrachloroethene	50.0	51.53		ug/L		103	80 - 126	0	16	
Toluene	50.0	44.30		ug/L		89	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	46.75		ug/L		93	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	48.98		ug/L		98	63 - 134	0	14	
Trichloroethene	50.0	50.06		ug/L		100	80 - 123	2	17	
Trichlorofluoromethane	50.0	60.34		ug/L		121	65 - 124	8	18	
Vinyl chloride	50.0	56.13		ug/L		112	68 - 120	2	17	
Xylenes, Total	100	89.32		ug/L		89	80 - 132	0	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	: 5		70 - 150
4-mrof obluorozen8ene (Surr)	: 2		70 - 150
Dizrof obluorof ethane (Surr)	101		70 - 150
6oluene-dB (Surr)	: B		70 - 150

Lab Sample ID: 490-37090-3 MS

Matrix: Water

Analysis Batch: 114166

Client Sample ID: OR-3W

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
1,1,1,2-Tetrachloroethane	ND		50.0	51.19		ug/L		102	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	50.65		ug/L		101	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	60.32		ug/L		121	56 - 143	
1,1,2-Trichloroethane	ND		50.0	53.54		ug/L		107	74 - 134	
1,1-Dichloroethane	ND		50.0	49.28		ug/L		99	71 - 139	
Diisopropyl ether	ND		50.0	42.46		ug/L		85	10 - 200	
1,1-Dichloroethene	ND		50.0	48.53		ug/L		97	70 - 142	
1,1-Dichloropropene	ND		50.0	41.71		ug/L		83	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	47.92		ug/L		96	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37090-3 MS

Client Sample ID: OR-3W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114166

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		50.0	67.63		ug/L		135	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	43.84		ug/L		88	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	9.587	F	ug/L		19	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	69.67	F	ug/L		139	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	55.76		ug/L		112	75 - 137
1,2-Dichlorobenzene	ND		50.0	50.06		ug/L		100	79 - 128
1,2-Dichloroethane	ND		50.0	51.13		ug/L		102	64 - 136
1,2-Dichloropropane	ND		50.0	45.97		ug/L		92	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	1.675	F	ug/L		3	69 - 139
1,3-Dichlorobenzene	ND		50.0	48.67		ug/L		97	77 - 131
1,3-Dichloropropane	ND		50.0	51.37		ug/L		103	72 - 134
1,4-Dichlorobenzene	ND		50.0	48.17		ug/L		96	78 - 126
2,2-Dichloropropane	ND		50.0	45.39		ug/L		91	37 - 175
2-Butanone (MEK)	ND		250	406.6	F	ug/L		163	50 - 138
2-Chlorotoluene	ND		50.0	40.15		ug/L		80	67 - 138
2-Hexanone	ND		250	472.8	F	ug/L		189	50 - 150
4-Chlorotoluene	ND		50.0	35.80		ug/L		72	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	425.4	F	ug/L		170	50 - 147
Acetone	179		250	509.8		ug/L		132	45 - 141
Benzene	ND		50.0	47.88		ug/L		96	75 - 133
Bromobenzene	ND		50.0	41.77		ug/L		84	60 - 138
Bromochloromethane	ND		50.0	57.19		ug/L		114	67 - 139
Bromodichloromethane	ND		50.0	48.34		ug/L		97	70 - 140
Bromoform	ND		50.0	61.43		ug/L		123	42 - 147
Bromomethane	ND		50.0	33.11		ug/L		66	16 - 163
Carbon disulfide	2.80		50.0	49.79		ug/L		94	48 - 152
Carbon tetrachloride	ND		50.0	53.01		ug/L		106	62 - 164
Chlorobenzene	ND		50.0	49.14		ug/L		98	80 - 129
Chlorodibromomethane	ND		50.0	53.74		ug/L		107	66 - 140
Chloroethane	ND		50.0	55.92		ug/L		112	58 - 137
Chloroform	ND		50.0	48.47		ug/L		97	66 - 138
Chloromethane	2.29		50.0	56.09		ug/L		108	10 - 169
cis-1,2-Dichloroethene	ND		50.0	49.61		ug/L		99	68 - 138
cis-1,3-Dichloropropene	ND		50.0	45.14		ug/L		90	71 - 141
Dibromomethane	ND		50.0	55.48		ug/L		111	58 - 140
Dichlorodifluoromethane	ND *		50.0	71.99	F	ug/L		144	40 - 127
Ethylbenzene	ND		50.0	36.01	F	ug/L		72	79 - 139
Hexachlorobutadiene	ND		50.0	47.37		ug/L		95	45 - 155
Isopropylbenzene	ND		50.0	38.39	F	ug/L		77	80 - 153
Methyl tert-butyl ether	ND		50.0	50.51		ug/L		101	66 - 141
Methylene Chloride	ND		50.0	49.28		ug/L		99	64 - 139
Naphthalene	ND		50.0	46.61		ug/L		93	55 - 140
n-Butylbenzene	ND		50.0	33.26		ug/L		67	66 - 141
N-Propylbenzene	ND		50.0	33.93	F	ug/L		68	69 - 142
p-Isopropyltoluene	ND		50.0	26.52	F	ug/L		53	71 - 137
sec-Butylbenzene	ND		50.0	36.32		ug/L		73	73 - 138
Styrene	ND		50.0	ND	F	ug/L		0	61 - 148
tert-Butylbenzene	ND		50.0	40.14		ug/L		80	70 - 138

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37090-3 MS

Matrix: Water

Analysis Batch: 114166

Client Sample ID: OR-3W

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	53.67		ug/L		107	72 - 145
Toluene	ND		50.0	34.70	F	ug/L		69	75 - 136
trans-1,2-Dichloroethene	ND		50.0	48.08		ug/L		96	66 - 143
trans-1,3-Dichloropropene	ND		50.0	46.78		ug/L		94	59 - 135
Trichloroethene	ND		50.0	52.13		ug/L		104	73 - 144
Trichlorofluoromethane	ND		50.0	55.16		ug/L		110	58 - 139
Vinyl chloride	ND		50.0	50.39		ug/L		101	56 - 129
Xylenes, Total	ND		100	42.35	F	ug/L		42	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	: 4		70 - 150
4-mrofl obluorozen8ene (Surr)	: 0		70 - 150
Dizrofl obluoroof ethane (Surr)	102		70 - 150
6oluene-dB (Surr)	: 9		70 - 150

Lab Sample ID: 490-37090-3 MSD

Matrix: Water

Analysis Batch: 114166

Client Sample ID: OR-3W

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	53.85		ug/L		108	73 - 141	5	16
1,1,1-Trichloroethane	ND		50.0	52.98		ug/L		106	76 - 149	5	17
1,1,1,2-Tetrachloroethane	ND		50.0	62.47		ug/L		125	56 - 143	4	20
1,1,2-Trichloroethane	ND		50.0	56.28		ug/L		113	74 - 134	5	15
1,1-Dichloroethane	ND		50.0	51.83		ug/L		104	71 - 139	5	17
Diisopropyl ether	ND		50.0	44.23		ug/L		88	10 - 200	4	50
1,1-Dichloroethene	ND		50.0	49.28		ug/L		99	70 - 142	2	17
1,1-Dichloropropene	ND		50.0	42.30		ug/L		85	76 - 139	1	17
1,2,3-Trichlorobenzene	ND		50.0	50.86		ug/L		102	55 - 138	6	25
1,2,3-Trichloropropane	ND		50.0	69.46		ug/L		139	53 - 144	3	19
1,2,4-Trichlorobenzene	ND		50.0	47.42		ug/L		95	60 - 136	8	19
1,2,4-Trimethylbenzene	ND		50.0	6.849	F	ug/L		14	69 - 136	33	16
1,2-Dibromo-3-Chloropropane	ND		50.0	72.44	F	ug/L		145	52 - 126	4	24
1,2-Dibromoethane (EDB)	ND		50.0	58.89		ug/L		118	75 - 137	5	15
1,2-Dichlorobenzene	ND		50.0	51.95		ug/L		104	79 - 128	4	15
1,2-Dichloroethane	ND		50.0	52.91		ug/L		106	64 - 136	3	17
1,2-Dichloropropane	ND		50.0	47.90		ug/L		96	67 - 131	4	17
1,3,5-Trimethylbenzene	ND		50.0	ND	F	ug/L		2	69 - 139	76	17
1,3-Dichlorobenzene	ND		50.0	50.61		ug/L		101	77 - 131	4	15
1,3-Dichloropropane	ND		50.0	53.54		ug/L		107	72 - 134	4	14
1,4-Dichlorobenzene	ND		50.0	50.43		ug/L		101	78 - 126	5	15
2,2-Dichloropropane	ND		50.0	47.02		ug/L		94	37 - 175	4	18
2-Butanone (MEK)	ND		250	424.8	F	ug/L		170	50 - 138	4	19
2-Chlorotoluene	ND		50.0	41.73		ug/L		83	67 - 138	4	17
2-Hexanone	ND		250	502.6	F	ug/L		201	50 - 150	6	15
4-Chlorotoluene	ND		50.0	36.40		ug/L		73	69 - 138	2	18
4-Methyl-2-pentanone (MIBK)	ND		250	448.3	F	ug/L		179	50 - 147	5	17
Acetone	179		250	526.5		ug/L		139	45 - 141	3	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37090-3 MSD

Client Sample ID: OR-3W

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114166

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	49.70		ug/L		99	75 - 133	4	17
Bromobenzene	ND		50.0	43.54		ug/L		87	60 - 138	4	20
Bromochloromethane	ND		50.0	58.90		ug/L		118	67 - 139	3	17
Bromodichloromethane	ND		50.0	50.35		ug/L		101	70 - 140	4	18
Bromoform	ND		50.0	66.30		ug/L		133	42 - 147	8	16
Bromomethane	ND		50.0	39.81		ug/L		80	16 - 163	18	50
Carbon disulfide	2.80		50.0	51.97		ug/L		98	48 - 152	4	21
Carbon tetrachloride	ND		50.0	56.04		ug/L		112	62 - 164	6	19
Chlorobenzene	ND		50.0	51.68		ug/L		103	80 - 129	5	14
Chlorodibromomethane	ND		50.0	56.78		ug/L		114	66 - 140	6	15
Chloroethane	ND		50.0	58.92		ug/L		118	58 - 137	5	20
Chloroform	ND		50.0	50.63		ug/L		101	66 - 138	4	18
Chloromethane	2.29		50.0	53.90		ug/L		103	10 - 169	4	31
cis-1,2-Dichloroethene	ND		50.0	51.84		ug/L		104	68 - 138	4	17
cis-1,3-Dichloropropene	ND		50.0	46.78		ug/L		94	71 - 141	4	15
Dibromomethane	ND		50.0	59.07		ug/L		118	58 - 140	6	16
Dichlorodifluoromethane	ND *		50.0	76.18	F	ug/L		152	40 - 127	6	18
Ethylbenzene	ND		50.0	35.14	F	ug/L		70	79 - 139	2	15
Hexachlorobutadiene	ND		50.0	51.19		ug/L		102	45 - 155	8	23
Isopropylbenzene	ND		50.0	39.09	F	ug/L		78	80 - 153	2	16
Methyl tert-butyl ether	ND		50.0	53.45		ug/L		107	66 - 141	6	16
Methylene Chloride	ND		50.0	51.67		ug/L		103	64 - 139	5	17
Naphthalene	ND		50.0	46.35		ug/L		93	55 - 140	1	26
n-Butylbenzene	ND		50.0	33.66		ug/L		67	66 - 141	1	18
N-Propylbenzene	ND		50.0	33.79	F	ug/L		68	69 - 142	0	17
p-Isopropyltoluene	ND		50.0	24.21	F	ug/L		48	71 - 137	9	16
sec-Butylbenzene	ND		50.0	36.40		ug/L		73	73 - 138	0	16
Styrene	ND		50.0	ND	F	ug/L		0	61 - 148	NC	24
tert-Butylbenzene	ND		50.0	41.49		ug/L		83	70 - 138	3	16
Tetrachloroethene	ND		50.0	57.10		ug/L		114	72 - 145	6	16
Toluene	ND		50.0	34.00	F	ug/L		68	75 - 136	2	15
trans-1,2-Dichloroethene	ND		50.0	50.44		ug/L		101	66 - 143	5	16
trans-1,3-Dichloropropene	ND		50.0	48.64		ug/L		97	59 - 135	4	14
Trichloroethene	ND		50.0	54.41		ug/L		109	73 - 144	4	17
Trichlorofluoromethane	ND		50.0	58.04		ug/L		116	58 - 139	5	18
Vinyl chloride	ND		50.0	53.59		ug/L		107	56 - 129	6	17
Xylenes, Total	ND		100	36.93	F	ug/L		37	74 - 141	14	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	: 5		70 - 150
4-mrofluorobenene (Surr)	: 0		70 - 150
Dizrofluoroethane (Surr)	100		70 - 150
6oluene-dB (Surr)	: T		70 - 150

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-114513/13

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/15/13 19:59	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/15/13 19:59	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/15/13 19:59	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/15/13 19:59	1
1,1-Dichloroethane	ND		1.00	ug/L			10/15/13 19:59	1
Diisopropyl ether	ND		2.00	ug/L			10/15/13 19:59	1
1,1-Dichloroethene	ND		1.00	ug/L			10/15/13 19:59	1
1,1-Dichloropropene	ND		1.00	ug/L			10/15/13 19:59	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/15/13 19:59	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/15/13 19:59	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/15/13 19:59	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,2-Dichloroethane	ND		1.00	ug/L			10/15/13 19:59	1
1,2-Dichloropropane	ND		1.00	ug/L			10/15/13 19:59	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
1,3-Dichloropropane	ND		1.00	ug/L			10/15/13 19:59	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
2,2-Dichloropropane	ND		1.00	ug/L			10/15/13 19:59	1
2-Butanone (MEK)	ND		50.0	ug/L			10/15/13 19:59	1
2-Chlorotoluene	ND		1.00	ug/L			10/15/13 19:59	1
2-Hexanone	ND		5.00	ug/L			10/15/13 19:59	1
4-Chlorotoluene	ND		1.00	ug/L			10/15/13 19:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/15/13 19:59	1
Acetone	ND		5.00	ug/L			10/15/13 19:59	1
Benzene	ND		1.00	ug/L			10/15/13 19:59	1
Bromobenzene	ND		1.00	ug/L			10/15/13 19:59	1
Bromochloromethane	ND		1.00	ug/L			10/15/13 19:59	1
Bromodichloromethane	ND		1.00	ug/L			10/15/13 19:59	1
Bromoform	ND		1.00	ug/L			10/15/13 19:59	1
Bromomethane	ND		1.00	ug/L			10/15/13 19:59	1
Carbon disulfide	ND		1.00	ug/L			10/15/13 19:59	1
Carbon tetrachloride	ND		1.00	ug/L			10/15/13 19:59	1
Chlorobenzene	ND		1.00	ug/L			10/15/13 19:59	1
Chlorodibromomethane	ND		1.00	ug/L			10/15/13 19:59	1
Chloroethane	ND		1.00	ug/L			10/15/13 19:59	1
Chloroform	ND		1.00	ug/L			10/15/13 19:59	1
Chloromethane	ND		1.00	ug/L			10/15/13 19:59	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/15/13 19:59	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/15/13 19:59	1
Dibromomethane	ND		1.00	ug/L			10/15/13 19:59	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/15/13 19:59	1
Ethylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
Hexachlorobutadiene	ND		2.00	ug/L			10/15/13 19:59	1
Isopropylbenzene	ND		1.00	ug/L			10/15/13 19:59	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-114513/13

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			10/15/13 19:59	1
Methylene Chloride	ND		5.00	ug/L			10/15/13 19:59	1
Naphthalene	ND		5.00	ug/L			10/15/13 19:59	1
n-Butylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
N-Propylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
p-Isopropyltoluene	ND		1.00	ug/L			10/15/13 19:59	1
sec-Butylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
Styrene	ND		1.00	ug/L			10/15/13 19:59	1
tert-Butylbenzene	ND		1.00	ug/L			10/15/13 19:59	1
Tetrachloroethene	ND		1.00	ug/L			10/15/13 19:59	1
Toluene	ND		1.00	ug/L			10/15/13 19:59	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/15/13 19:59	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/15/13 19:59	1
Trichloroethene	ND		1.00	ug/L			10/15/13 19:59	1
Trichlorofluoromethane	ND		1.00	ug/L			10/15/13 19:59	1
Vinyl chloride	ND		1.00	ug/L			10/15/13 19:59	1
Xylenes, Total	ND		2.00	ug/L			10/15/13 19:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 150		10/31/15 1: /9:	1
4-mrofluorobenzenene (Surr)	: 4		70 - 150		10/31/15 1: /9:	1
Dizrofluoroethane (Surr)	105		70 - 150		10/31/15 1: /9:	1
6oluene-dB (Surr)	: B		70 - 150		10/31/15 1: /9:	1

Lab Sample ID: LCS 490-114513/3

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.26		ug/L		103	74 - 135
1,1,1-Trichloroethane	50.0	51.91		ug/L		104	78 - 135
1,1,2,2-Tetrachloroethane	50.0	54.85		ug/L		110	69 - 131
1,1,2-Trichloroethane	50.0	52.95		ug/L		106	80 - 124
1,1-Dichloroethane	50.0	52.78		ug/L		106	78 - 125
Diisopropyl ether	50.0	48.11		ug/L		96	61 - 142
1,1-Dichloroethene	50.0	55.70		ug/L		111	79 - 124
1,1-Dichloropropene	50.0	51.41		ug/L		103	80 - 122
1,2,3-Trichlorobenzene	50.0	50.08		ug/L		100	62 - 133
1,2,3-Trichloropropane	50.0	58.91		ug/L		118	70 - 131
1,2,4-Trichlorobenzene	50.0	46.08		ug/L		92	63 - 133
1,2,4-Trimethylbenzene	50.0	46.32		ug/L		93	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	51.88		ug/L		104	54 - 125
1,2-Dibromoethane (EDB)	50.0	54.35		ug/L		109	80 - 129
1,2-Dichlorobenzene	50.0	50.99		ug/L		102	80 - 121
1,2-Dichloroethane	50.0	54.47		ug/L		109	77 - 121
1,2-Dichloropropane	50.0	49.17		ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	47.45		ug/L		95	77 - 127
1,3-Dichlorobenzene	50.0	49.74		ug/L		99	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114513/3

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	51.85		ug/L		104	80 - 125
1,4-Dichlorobenzene	50.0	49.69		ug/L		99	80 - 120
2,2-Dichloropropane	50.0	51.29		ug/L		103	43 - 161
2-Butanone (MEK)	250	325.4		ug/L		130	62 - 133
2-Chlorotoluene	50.0	45.90		ug/L		92	75 - 126
2-Hexanone	250	291.1		ug/L		116	60 - 142
4-Chlorotoluene	50.0	46.29		ug/L		93	75 - 130
4-Methyl-2-pentanone (MIBK)	250	290.9		ug/L		116	60 - 137
Acetone	250	284.6		ug/L		114	54 - 145
Benzene	50.0	50.08		ug/L		100	80 - 121
Bromobenzene	50.0	45.66		ug/L		91	68 - 130
Bromochloromethane	50.0	55.61		ug/L		111	78 - 129
Bromodichloromethane	50.0	50.84		ug/L		102	75 - 129
Bromoform	50.0	57.28		ug/L		115	46 - 145
Bromomethane	50.0	50.33		ug/L		101	41 - 150
Carbon disulfide	50.0	50.37		ug/L		101	77 - 126
Carbon tetrachloride	50.0	53.19		ug/L		106	64 - 147
Chlorobenzene	50.0	49.14		ug/L		98	80 - 120
Chlorodibromomethane	50.0	53.71		ug/L		107	69 - 133
Chloroethane	50.0	58.44		ug/L		117	72 - 120
Chloroform	50.0	50.99		ug/L		102	73 - 129
Chloromethane	50.0	43.68		ug/L		87	12 - 150
cis-1,2-Dichloroethene	50.0	52.00		ug/L		104	76 - 125
cis-1,3-Dichloropropene	50.0	49.52		ug/L		99	74 - 140
Dibromomethane	50.0	55.96		ug/L		112	71 - 125
Dichlorodifluoromethane	50.0	76.16	*	ug/L		152	37 - 127
Ethylbenzene	50.0	48.50		ug/L		97	80 - 130
Hexachlorobutadiene	50.0	48.30		ug/L		97	49 - 146
Isopropylbenzene	50.0	49.18		ug/L		98	80 - 141
Methyl tert-butyl ether	50.0	51.33		ug/L		103	72 - 133
Methylene Chloride	50.0	52.60		ug/L		105	79 - 123
Naphthalene	50.0	51.35		ug/L		103	62 - 138
n-Butylbenzene	50.0	47.89		ug/L		96	68 - 132
N-Propylbenzene	50.0	46.73		ug/L		93	75 - 129
p-Isopropyltoluene	50.0	48.35		ug/L		97	75 - 128
sec-Butylbenzene	50.0	47.63		ug/L		95	76 - 128
Styrene	50.0	49.74		ug/L		99	80 - 127
tert-Butylbenzene	50.0	48.46		ug/L		97	76 - 126
Tetrachloroethene	50.0	53.21		ug/L		106	80 - 126
Toluene	50.0	47.15		ug/L		94	80 - 126
trans-1,2-Dichloroethene	50.0	51.95		ug/L		104	79 - 126
trans-1,3-Dichloropropene	50.0	50.13		ug/L		100	63 - 134
Trichloroethene	50.0	51.88		ug/L		104	80 - 123
Trichlorofluoromethane	50.0	56.04		ug/L		112	65 - 124
Vinyl chloride	50.0	55.74		ug/L		111	68 - 120
Xylenes, Total	100	94.20		ug/L		94	80 - 132

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114513/3

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 150
4-mrofluorobenzenene (Surr)	: 2		70 - 150
Dizrofluoroethane (Surr)	105		70 - 150
6oluene-dB (Surr)	: 7		70 - 150

Lab Sample ID: LCSD 490-114513/4

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.09		ug/L		104	74 - 135	2	16
1,1,1-Trichloroethane	50.0	52.36		ug/L		105	78 - 135	1	17
1,1,1,2-Tetrachloroethane	50.0	56.57		ug/L		113	69 - 131	3	20
1,1,2-Trichloroethane	50.0	53.93		ug/L		108	80 - 124	2	15
1,1-Dichloroethane	50.0	52.98		ug/L		106	78 - 125	0	17
Diisopropyl ether	50.0	48.38		ug/L		97	61 - 142	1	50
1,1-Dichloroethene	50.0	56.08		ug/L		112	79 - 124	1	17
1,1-Dichloropropene	50.0	51.08		ug/L		102	80 - 122	1	17
1,2,3-Trichlorobenzene	50.0	52.47		ug/L		105	62 - 133	5	25
1,2,3-Trichloropropane	50.0	60.89		ug/L		122	70 - 131	3	19
1,2,4-Trichlorobenzene	50.0	49.52		ug/L		99	63 - 133	7	19
1,2,4-Trimethylbenzene	50.0	47.84		ug/L		96	77 - 126	3	16
1,2-Dibromo-3-Chloropropane	50.0	55.51		ug/L		111	54 - 125	7	24
1,2-Dibromoethane (EDB)	50.0	54.97		ug/L		110	80 - 129	1	15
1,2-Dichlorobenzene	50.0	52.84		ug/L		106	80 - 121	4	15
1,2-Dichloroethane	50.0	54.51		ug/L		109	77 - 121	0	17
1,2-Dichloropropane	50.0	49.26		ug/L		99	75 - 120	0	17
1,3,5-Trimethylbenzene	50.0	48.75		ug/L		97	77 - 127	3	17
1,3-Dichlorobenzene	50.0	51.42		ug/L		103	80 - 122	3	15
1,3-Dichloropropane	50.0	52.47		ug/L		105	80 - 125	1	14
1,4-Dichlorobenzene	50.0	50.90		ug/L		102	80 - 120	2	15
2,2-Dichloropropane	50.0	50.92		ug/L		102	43 - 161	1	18
2-Butanone (MEK)	250	322.4		ug/L		129	62 - 133	1	19
2-Chlorotoluene	50.0	46.70		ug/L		93	75 - 126	2	17
2-Hexanone	250	297.5		ug/L		119	60 - 142	2	15
4-Chlorotoluene	50.0	47.08		ug/L		94	75 - 130	2	18
4-Methyl-2-pentanone (MIBK)	250	300.0		ug/L		120	60 - 137	3	17
Acetone	250	285.9		ug/L		114	54 - 145	0	21
Benzene	50.0	50.57		ug/L		101	80 - 121	1	17
Bromobenzene	50.0	47.11		ug/L		94	68 - 130	3	20
Bromochloromethane	50.0	56.39		ug/L		113	78 - 129	1	17
Bromodichloromethane	50.0	51.67		ug/L		103	75 - 129	2	18
Bromoform	50.0	57.82		ug/L		116	46 - 145	1	16
Bromomethane	50.0	55.34		ug/L		111	41 - 150	9	50
Carbon disulfide	50.0	51.46		ug/L		103	77 - 126	2	21
Carbon tetrachloride	50.0	53.88		ug/L		108	64 - 147	1	19
Chlorobenzene	50.0	50.40		ug/L		101	80 - 120	3	14
Chlorodibromomethane	50.0	54.93		ug/L		110	69 - 133	2	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-114513/4

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Chloroethane	50.0	59.98		ug/L		120	72 - 120	3	20	
Chloroform	50.0	51.20		ug/L		102	73 - 129	0	18	
Chloromethane	50.0	47.27		ug/L		95	12 - 150	8	31	
cis-1,2-Dichloroethene	50.0	52.57		ug/L		105	76 - 125	1	17	
cis-1,3-Dichloropropene	50.0	49.76		ug/L		100	74 - 140	0	15	
Dibromomethane	50.0	56.56		ug/L		113	71 - 125	1	16	
Dichlorodifluoromethane	50.0	75.57	*	ug/L		151	37 - 127	1	18	
Ethylbenzene	50.0	48.81		ug/L		98	80 - 130	1	15	
Hexachlorobutadiene	50.0	51.83		ug/L		104	49 - 146	7	23	
Isopropylbenzene	50.0	49.55		ug/L		99	80 - 141	1	16	
Methyl tert-butyl ether	50.0	52.03		ug/L		104	72 - 133	1	16	
Methylene Chloride	50.0	52.62		ug/L		105	79 - 123	0	17	
Naphthalene	50.0	53.70		ug/L		107	62 - 138	4	26	
n-Butylbenzene	50.0	49.20		ug/L		98	68 - 132	3	18	
N-Propylbenzene	50.0	48.21		ug/L		96	75 - 129	3	17	
p-Isopropyltoluene	50.0	49.29		ug/L		99	75 - 128	2	16	
sec-Butylbenzene	50.0	49.18		ug/L		98	76 - 128	3	16	
Styrene	50.0	49.82		ug/L		100	80 - 127	0	24	
tert-Butylbenzene	50.0	49.26		ug/L		99	76 - 126	2	16	
Tetrachloroethene	50.0	53.93		ug/L		108	80 - 126	1	16	
Toluene	50.0	47.76		ug/L		96	80 - 126	1	15	
trans-1,2-Dichloroethene	50.0	52.83		ug/L		106	79 - 126	2	16	
trans-1,3-Dichloropropene	50.0	50.99		ug/L		102	63 - 134	2	14	
Trichloroethene	50.0	52.19		ug/L		104	80 - 123	1	17	
Trichlorofluoromethane	50.0	56.33		ug/L		113	65 - 124	1	18	
Vinyl chloride	50.0	56.84		ug/L		114	68 - 120	2	17	
Xylenes, Total	100	95.68		ug/L		96	80 - 132	2	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 150
4-mrof obluorozen8ene (Surr)	: 9		70 - 150
Dizrof obluorof ethane (Surr)	105		70 - 150
6oluene-dB (Surr)	: 7		70 - 150

Lab Sample ID: 490-37253-B-1 MS

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1,1,2-Tetrachloroethane	ND		50.0	51.12		ug/L		102	73 - 141	
1,1,1,1-Trichloroethane	ND		50.0	53.32		ug/L		107	76 - 149	
1,1,2,2-Tetrachloroethane	ND		50.0	55.40		ug/L		111	56 - 143	
1,1,2-Trichloroethane	ND		50.0	52.46		ug/L		105	74 - 134	
1,1-Dichloroethane	ND		50.0	53.50		ug/L		107	71 - 139	
Diisopropyl ether	ND		50.0	47.77		ug/L		96	10 - 200	
1,1-Dichloroethene	ND		50.0	57.24		ug/L		114	70 - 142	
1,1-Dichloropropene	ND		50.0	52.21		ug/L		104	76 - 139	
1,2,3-Trichlorobenzene	ND		50.0	51.17		ug/L		102	55 - 138	

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37253-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 114513

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,2,3-Trichloropropane	ND		50.0	59.07		ug/L		118	53 - 144
1,2,4-Trichlorobenzene	ND		50.0	49.28		ug/L		99	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	47.99		ug/L		96	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	50.90		ug/L		102	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	53.70		ug/L		107	75 - 137
1,2-Dichlorobenzene	ND		50.0	51.89		ug/L		104	79 - 128
1,2-Dichloroethane	ND		50.0	54.12		ug/L		108	64 - 136
1,2-Dichloropropane	ND		50.0	49.27		ug/L		99	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	48.65		ug/L		97	69 - 139
1,3-Dichlorobenzene	ND		50.0	50.80		ug/L		102	77 - 131
1,3-Dichloropropane	ND		50.0	50.88		ug/L		102	72 - 134
1,4-Dichlorobenzene	ND		50.0	50.04		ug/L		100	78 - 126
2,2-Dichloropropane	ND		50.0	48.00		ug/L		96	37 - 175
2-Butanone (MEK)	ND		250	306.9		ug/L		123	50 - 138
2-Chlorotoluene	ND		50.0	47.20		ug/L		94	67 - 138
2-Hexanone	ND		250	279.8		ug/L		112	50 - 150
4-Chlorotoluene	ND		50.0	47.52		ug/L		95	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	281.2		ug/L		112	50 - 147
Acetone	ND		250	270.9		ug/L		108	45 - 141
Benzene	ND		50.0	51.11		ug/L		102	75 - 133
Bromobenzene	ND		50.0	46.67		ug/L		93	60 - 138
Bromochloromethane	ND		50.0	55.96		ug/L		112	67 - 139
Bromodichloromethane	ND		50.0	51.21		ug/L		102	70 - 140
Bromoform	ND		50.0	54.36		ug/L		109	42 - 147
Bromomethane	ND		50.0	45.98		ug/L		92	16 - 163
Carbon disulfide	ND		50.0	50.85		ug/L		102	48 - 152
Carbon tetrachloride	ND		50.0	54.37		ug/L		109	62 - 164
Chlorobenzene	ND		50.0	49.17		ug/L		98	80 - 129
Chlorodibromomethane	ND		50.0	53.08		ug/L		106	66 - 140
Chloroethane	ND		50.0	60.12		ug/L		120	58 - 137
Chloroform	ND		50.0	51.36		ug/L		103	66 - 138
Chloromethane	ND		50.0	47.04		ug/L		94	10 - 169
cis-1,2-Dichloroethene	ND		50.0	51.86		ug/L		104	68 - 138
cis-1,3-Dichloropropene	ND		50.0	48.24		ug/L		96	71 - 141
Dibromomethane	ND		50.0	55.89		ug/L		112	58 - 140
Dichlorodifluoromethane	ND *		50.0	80.28	F	ug/L		161	40 - 127
Ethylbenzene	ND		50.0	48.26		ug/L		97	79 - 139
Hexachlorobutadiene	ND		50.0	50.86		ug/L		102	45 - 155
Isopropylbenzene	ND		50.0	49.79		ug/L		100	80 - 153
Methyl tert-butyl ether	ND		50.0	51.49		ug/L		103	66 - 141
Methylene Chloride	ND		50.0	52.85		ug/L		106	64 - 139
Naphthalene	ND		50.0	53.90		ug/L		108	55 - 140
n-Butylbenzene	ND		50.0	49.17		ug/L		98	66 - 141
N-Propylbenzene	ND		50.0	48.31		ug/L		97	69 - 142
p-Isopropyltoluene	ND		50.0	49.00		ug/L		98	71 - 137
sec-Butylbenzene	ND		50.0	48.87		ug/L		98	73 - 138
Styrene	ND		50.0	49.22		ug/L		98	61 - 148
tert-Butylbenzene	ND		50.0	49.25		ug/L		99	70 - 138

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37253-B-1 MS

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Tetrachloroethene	ND		50.0	53.38		ug/L		107	72 - 145
Toluene	ND		50.0	47.42		ug/L		95	75 - 136
trans-1,2-Dichloroethene	ND		50.0	52.45		ug/L		105	66 - 143
trans-1,3-Dichloropropene	ND		50.0	48.60		ug/L		97	59 - 135
Trichloroethene	ND		50.0	54.13		ug/L		108	73 - 144
Trichlorofluoromethane	ND		50.0	60.28		ug/L		121	58 - 139
Vinyl chloride	ND		50.0	60.83		ug/L		122	56 - 129
Xylenes, Total	ND		100	94.67		ug/L		95	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	: B		70 - 150
4-mrofl obluorozen8ene (Surr)	: T		70 - 150
Dizrofl obluorof ethane (Surr)	101		70 - 150
6oluene-dB (Surr)	: T		70 - 150

Lab Sample ID: 490-37253-C-1 MSD

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		50.0	50.32		ug/L		101	73 - 141	2	16
1,1,1-Trichloroethane	ND		50.0	51.96		ug/L		104	76 - 149	3	17
1,1,1,2-Tetrachloroethane	ND		50.0	54.61		ug/L		109	56 - 143	1	20
1,1,2-Trichloroethane	ND		50.0	52.34		ug/L		105	74 - 134	0	15
1,1-Dichloroethane	ND		50.0	52.82		ug/L		106	71 - 139	1	17
Diisopropyl ether	ND		50.0	47.53		ug/L		95	10 - 200	1	50
1,1-Dichloroethene	ND		50.0	56.49		ug/L		113	70 - 142	1	17
1,1-Dichloropropene	ND		50.0	50.25		ug/L		100	76 - 139	4	17
1,2,3-Trichlorobenzene	ND		50.0	50.85		ug/L		102	55 - 138	1	25
1,2,3-Trichloropropane	ND		50.0	58.86		ug/L		118	53 - 144	0	19
1,2,4-Trichlorobenzene	ND		50.0	49.78		ug/L		100	60 - 136	1	19
1,2,4-Trimethylbenzene	ND		50.0	45.46		ug/L		91	69 - 136	5	16
1,2-Dibromo-3-Chloropropane	ND		50.0	51.18		ug/L		102	52 - 126	1	24
1,2-Dibromoethane (EDB)	ND		50.0	53.37		ug/L		107	75 - 137	1	15
1,2-Dichlorobenzene	ND		50.0	50.42		ug/L		101	79 - 128	3	15
1,2-Dichloroethane	ND		50.0	53.53		ug/L		107	64 - 136	1	17
1,2-Dichloropropane	ND		50.0	48.49		ug/L		97	67 - 131	2	17
1,3,5-Trimethylbenzene	ND		50.0	46.96		ug/L		94	69 - 139	4	17
1,3-Dichlorobenzene	ND		50.0	48.97		ug/L		98	77 - 131	4	15
1,3-Dichloropropane	ND		50.0	50.91		ug/L		102	72 - 134	0	14
1,4-Dichlorobenzene	ND		50.0	48.26		ug/L		97	78 - 126	4	15
2,2-Dichloropropane	ND		50.0	46.97		ug/L		94	37 - 175	2	18
2-Butanone (MEK)	ND		250	303.2		ug/L		121	50 - 138	1	19
2-Chlorotoluene	ND		50.0	44.44		ug/L		89	67 - 138	6	17
2-Hexanone	ND		250	276.9		ug/L		111	50 - 150	1	15
4-Chlorotoluene	ND		50.0	45.29		ug/L		91	69 - 138	5	18
4-Methyl-2-pentanone (MIBK)	ND		250	283.1		ug/L		113	50 - 147	1	17
Acetone	ND		250	259.9		ug/L		104	45 - 141	4	21

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-37253-C-1 MSD

Matrix: Water

Analysis Batch: 114513

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND		50.0	50.25		ug/L		101	75 - 133	2	17
Bromobenzene	ND		50.0	45.12		ug/L		90	60 - 138	3	20
Bromochloromethane	ND		50.0	55.65		ug/L		111	67 - 139	1	17
Bromodichloromethane	ND		50.0	51.27		ug/L		103	70 - 140	0	18
Bromoform	ND		50.0	55.16		ug/L		110	42 - 147	1	16
Bromomethane	ND		50.0	54.48		ug/L		109	16 - 163	17	50
Carbon disulfide	ND		50.0	49.50		ug/L		99	48 - 152	3	21
Carbon tetrachloride	ND		50.0	52.79		ug/L		106	62 - 164	3	19
Chlorobenzene	ND		50.0	48.77		ug/L		98	80 - 129	1	14
Chlorodibromomethane	ND		50.0	51.88		ug/L		104	66 - 140	2	15
Chloroethane	ND		50.0	59.83		ug/L		120	58 - 137	0	20
Chloroform	ND		50.0	50.79		ug/L		102	66 - 138	1	18
Chloromethane	ND		50.0	48.17		ug/L		96	10 - 169	2	31
cis-1,2-Dichloroethene	ND		50.0	51.45		ug/L		103	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	47.58		ug/L		95	71 - 141	1	15
Dibromomethane	ND		50.0	55.20		ug/L		110	58 - 140	1	16
Dichlorodifluoromethane	ND *		50.0	76.83	F	ug/L		154	40 - 127	4	18
Ethylbenzene	ND		50.0	46.71		ug/L		93	79 - 139	3	15
Hexachlorobutadiene	ND		50.0	48.50		ug/L		97	45 - 155	5	23
Isopropylbenzene	ND		50.0	47.20		ug/L		94	80 - 153	5	16
Methyl tert-butyl ether	ND		50.0	51.04		ug/L		102	66 - 141	1	16
Methylene Chloride	ND		50.0	52.35		ug/L		105	64 - 139	1	17
Naphthalene	ND		50.0	53.14		ug/L		106	55 - 140	1	26
n-Butylbenzene	ND		50.0	46.01		ug/L		92	66 - 141	7	18
N-Propylbenzene	ND		50.0	45.73		ug/L		91	69 - 142	5	17
p-Isopropyltoluene	ND		50.0	47.43		ug/L		95	71 - 137	3	16
sec-Butylbenzene	ND		50.0	45.96		ug/L		92	73 - 138	6	16
Styrene	ND		50.0	47.88		ug/L		96	61 - 148	3	24
tert-Butylbenzene	ND		50.0	46.59		ug/L		93	70 - 138	6	16
Tetrachloroethene	ND		50.0	51.33		ug/L		103	72 - 145	4	16
Toluene	ND		50.0	45.94		ug/L		92	75 - 136	3	15
trans-1,2-Dichloroethene	ND		50.0	51.84		ug/L		104	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	48.39		ug/L		97	59 - 135	0	14
Trichloroethene	ND		50.0	51.81		ug/L		104	73 - 144	4	17
Trichlorofluoromethane	ND		50.0	58.37		ug/L		117	58 - 139	3	18
Vinyl chloride	ND		50.0	59.99		ug/L		120	56 - 129	1	17
Xylenes, Total	ND		100	90.55		ug/L		91	74 - 141	4	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	: B		70 - 150
4-mrofluorobenzenene (Surr)	: T		70 - 150
Dizrofluoroethane (Surr)	102		70 - 150
6oluene-dB (Surr)	: 7		70 - 150

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-114514/6

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 05:34	1
1,1,1-Trichloroethane	ND		1.00	ug/L			10/16/13 05:34	1
1,1,2,2-Tetrachloroethane	ND		1.00	ug/L			10/16/13 05:34	1
1,1,2-Trichloroethane	ND		1.00	ug/L			10/16/13 05:34	1
1,1-Dichloroethane	ND		1.00	ug/L			10/16/13 05:34	1
Diisopropyl ether	ND		2.00	ug/L			10/16/13 05:34	1
1,1-Dichloroethene	ND		1.00	ug/L			10/16/13 05:34	1
1,1-Dichloropropene	ND		1.00	ug/L			10/16/13 05:34	1
1,2,3-Trichlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,2,3-Trichloropropane	ND		1.00	ug/L			10/16/13 05:34	1
1,2,4-Trichlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,2,4-Trimethylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,2-Dibromo-3-Chloropropane	ND		10.0	ug/L			10/16/13 05:34	1
1,2-Dibromoethane (EDB)	ND		1.00	ug/L			10/16/13 05:34	1
1,2-Dichlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,2-Dichloroethane	ND		1.00	ug/L			10/16/13 05:34	1
1,2-Dichloropropane	ND		1.00	ug/L			10/16/13 05:34	1
1,3,5-Trimethylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,3-Dichlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
1,3-Dichloropropane	ND		1.00	ug/L			10/16/13 05:34	1
1,4-Dichlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
2,2-Dichloropropane	ND		1.00	ug/L			10/16/13 05:34	1
2-Butanone (MEK)	ND		50.0	ug/L			10/16/13 05:34	1
2-Chlorotoluene	ND		1.00	ug/L			10/16/13 05:34	1
2-Hexanone	ND		5.00	ug/L			10/16/13 05:34	1
4-Chlorotoluene	ND		1.00	ug/L			10/16/13 05:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.00	ug/L			10/16/13 05:34	1
Acetone	ND		5.00	ug/L			10/16/13 05:34	1
Benzene	ND		1.00	ug/L			10/16/13 05:34	1
Bromobenzene	ND		1.00	ug/L			10/16/13 05:34	1
Bromochloromethane	ND		1.00	ug/L			10/16/13 05:34	1
Bromodichloromethane	ND		1.00	ug/L			10/16/13 05:34	1
Bromoform	ND		1.00	ug/L			10/16/13 05:34	1
Bromomethane	ND		1.00	ug/L			10/16/13 05:34	1
Carbon disulfide	ND		1.00	ug/L			10/16/13 05:34	1
Carbon tetrachloride	ND		1.00	ug/L			10/16/13 05:34	1
Chlorobenzene	ND		1.00	ug/L			10/16/13 05:34	1
Chlorodibromomethane	ND		1.00	ug/L			10/16/13 05:34	1
Chloroethane	ND		1.00	ug/L			10/16/13 05:34	1
Chloroform	ND		1.00	ug/L			10/16/13 05:34	1
Chloromethane	ND		1.00	ug/L			10/16/13 05:34	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 05:34	1
cis-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 05:34	1
Dibromomethane	ND		1.00	ug/L			10/16/13 05:34	1
Dichlorodifluoromethane	ND		1.00	ug/L			10/16/13 05:34	1
Ethylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
Hexachlorobutadiene	ND		2.00	ug/L			10/16/13 05:34	1
Isopropylbenzene	ND		1.00	ug/L			10/16/13 05:34	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-114514/6

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00	ug/L			10/16/13 05:34	1
Methylene Chloride	ND		5.00	ug/L			10/16/13 05:34	1
Naphthalene	ND		5.00	ug/L			10/16/13 05:34	1
n-Butylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
N-Propylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
p-Isopropyltoluene	ND		1.00	ug/L			10/16/13 05:34	1
sec-Butylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
Styrene	ND		1.00	ug/L			10/16/13 05:34	1
tert-Butylbenzene	ND		1.00	ug/L			10/16/13 05:34	1
Tetrachloroethene	ND		1.00	ug/L			10/16/13 05:34	1
Toluene	ND		1.00	ug/L			10/16/13 05:34	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			10/16/13 05:34	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			10/16/13 05:34	1
Trichloroethene	ND		1.00	ug/L			10/16/13 05:34	1
Trichlorofluoromethane	ND		1.00	ug/L			10/16/13 05:34	1
Vinyl chloride	ND		1.00	ug/L			10/16/13 05:34	1
Xylenes, Total	ND		2.00	ug/L			10/16/13 05:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 150		10/31/15 09:54	1
4-mrofluorobenzenene (Surr)	: 2		70 - 150		10/31/15 09:54	1
Dizrofluoroethane (Surr)	105		70 - 150		10/31/15 09:54	1
6oluene-dB (Surr)	: B		70 - 150		10/31/15 09:54	1

Lab Sample ID: LCS 490-114514/3

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.15		ug/L		96	74 - 135
1,1,1-Trichloroethane	50.0	47.31		ug/L		95	78 - 135
1,1,2,2-Tetrachloroethane	50.0	51.17		ug/L		102	69 - 131
1,1,2-Trichloroethane	50.0	50.61		ug/L		101	80 - 124
1,1-Dichloroethane	50.0	47.72		ug/L		95	78 - 125
Diisopropyl ether	50.0	44.34		ug/L		89	61 - 142
1,1-Dichloroethene	50.0	51.79		ug/L		104	79 - 124
1,1-Dichloropropene	50.0	46.61		ug/L		93	80 - 122
1,2,3-Trichlorobenzene	50.0	49.91		ug/L		100	62 - 133
1,2,3-Trichloropropane	50.0	56.98		ug/L		114	70 - 131
1,2,4-Trichlorobenzene	50.0	46.36		ug/L		93	63 - 133
1,2,4-Trimethylbenzene	50.0	44.07		ug/L		88	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	49.22		ug/L		98	54 - 125
1,2-Dibromoethane (EDB)	50.0	51.39		ug/L		103	80 - 129
1,2-Dichlorobenzene	50.0	48.85		ug/L		98	80 - 121
1,2-Dichloroethane	50.0	50.45		ug/L		101	77 - 121
1,2-Dichloropropane	50.0	45.06		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	44.87		ug/L		90	77 - 127
1,3-Dichlorobenzene	50.0	47.69		ug/L		95	80 - 122

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114514/3

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	49.31		ug/L		99	80 - 125
1,4-Dichlorobenzene	50.0	46.95		ug/L		94	80 - 120
2,2-Dichloropropane	50.0	41.33		ug/L		83	43 - 161
2-Butanone (MEK)	250	295.9		ug/L		118	62 - 133
2-Chlorotoluene	50.0	43.16		ug/L		86	75 - 126
2-Hexanone	250	270.1		ug/L		108	60 - 142
4-Chlorotoluene	50.0	44.06		ug/L		88	75 - 130
4-Methyl-2-pentanone (MIBK)	250	270.9		ug/L		108	60 - 137
Acetone	250	295.0		ug/L		118	54 - 145
Benzene	50.0	46.61		ug/L		93	80 - 121
Bromobenzene	50.0	43.90		ug/L		88	68 - 130
Bromochloromethane	50.0	51.77		ug/L		104	78 - 129
Bromodichloromethane	50.0	47.65		ug/L		95	75 - 129
Bromoform	50.0	52.57		ug/L		105	46 - 145
Bromomethane	50.0	53.75		ug/L		107	41 - 150
Carbon disulfide	50.0	46.17		ug/L		92	77 - 126
Carbon tetrachloride	50.0	49.39		ug/L		99	64 - 147
Chlorobenzene	50.0	45.99		ug/L		92	80 - 120
Chlorodibromomethane	50.0	50.76		ug/L		102	69 - 133
Chloroethane	50.0	55.35		ug/L		111	72 - 120
Chloroform	50.0	46.93		ug/L		94	73 - 129
Chloromethane	50.0	42.05		ug/L		84	12 - 150
cis-1,2-Dichloroethene	50.0	47.15		ug/L		94	76 - 125
cis-1,3-Dichloropropene	50.0	45.02		ug/L		90	74 - 140
Dibromomethane	50.0	52.90		ug/L		106	71 - 125
Dichlorodifluoromethane	50.0	70.78	*	ug/L		142	37 - 127
Ethylbenzene	50.0	44.59		ug/L		89	80 - 130
Hexachlorobutadiene	50.0	47.10		ug/L		94	49 - 146
Isopropylbenzene	50.0	45.60		ug/L		91	80 - 141
Methyl tert-butyl ether	50.0	48.87		ug/L		98	72 - 133
Methylene Chloride	50.0	48.49		ug/L		97	79 - 123
Naphthalene	50.0	51.75		ug/L		103	62 - 138
n-Butylbenzene	50.0	44.13		ug/L		88	68 - 132
N-Propylbenzene	50.0	44.41		ug/L		89	75 - 129
p-Isopropyltoluene	50.0	44.98		ug/L		90	75 - 128
sec-Butylbenzene	50.0	44.98		ug/L		90	76 - 128
Styrene	50.0	46.35		ug/L		93	80 - 127
tert-Butylbenzene	50.0	45.45		ug/L		91	76 - 126
Tetrachloroethene	50.0	49.25		ug/L		99	80 - 126
Toluene	50.0	43.67		ug/L		87	80 - 126
trans-1,2-Dichloroethene	50.0	47.47		ug/L		95	79 - 126
trans-1,3-Dichloropropene	50.0	45.89		ug/L		92	63 - 134
Trichloroethene	50.0	50.37		ug/L		101	80 - 123
Trichlorofluoromethane	50.0	53.12		ug/L		106	65 - 124
Vinyl chloride	50.0	53.44		ug/L		107	68 - 120
Xylenes, Total	100	88.06		ug/L		88	80 - 132

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-114514/3

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	: 7		70 - 150
4-mrof obluorozen8ene (Surr)	: 9		70 - 150
Dizrof obluorof ethane (Surr)	102		70 - 150
6oluene-dB (Surr)	: T		70 - 150

Lab Sample ID: LCSD 490-114514/4

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	48.87		ug/L		98	74 - 135	1	16
1,1,1-Trichloroethane	50.0	48.52		ug/L		97	78 - 135	3	17
1,1,1,2-Tetrachloroethane	50.0	51.02		ug/L		102	69 - 131	0	20
1,1,2-Trichloroethane	50.0	50.67		ug/L		101	80 - 124	0	15
1,1-Dichloroethane	50.0	49.22		ug/L		98	78 - 125	3	17
Diisopropyl ether	50.0	45.09		ug/L		90	61 - 142	2	50
1,1-Dichloroethene	50.0	52.83		ug/L		106	79 - 124	2	17
1,1-Dichloropropene	50.0	47.83		ug/L		96	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	50.32		ug/L		101	62 - 133	1	25
1,2,3-Trichloropropane	50.0	56.49		ug/L		113	70 - 131	1	19
1,2,4-Trichlorobenzene	50.0	47.71		ug/L		95	63 - 133	3	19
1,2,4-Trimethylbenzene	50.0	44.92		ug/L		90	77 - 126	2	16
1,2-Dibromo-3-Chloropropane	50.0	50.27		ug/L		101	54 - 125	2	24
1,2-Dibromoethane (EDB)	50.0	51.29		ug/L		103	80 - 129	0	15
1,2-Dichlorobenzene	50.0	49.43		ug/L		99	80 - 121	1	15
1,2-Dichloroethane	50.0	51.12		ug/L		102	77 - 121	1	17
1,2-Dichloropropane	50.0	46.30		ug/L		93	75 - 120	3	17
1,3,5-Trimethylbenzene	50.0	45.64		ug/L		91	77 - 127	2	17
1,3-Dichlorobenzene	50.0	48.32		ug/L		97	80 - 122	1	15
1,3-Dichloropropane	50.0	49.56		ug/L		99	80 - 125	1	14
1,4-Dichlorobenzene	50.0	47.41		ug/L		95	80 - 120	1	15
2,2-Dichloropropane	50.0	41.88		ug/L		84	43 - 161	1	18
2-Butanone (MEK)	250	299.8		ug/L		120	62 - 133	1	19
2-Chlorotoluene	50.0	44.01		ug/L		88	75 - 126	2	17
2-Hexanone	250	271.9		ug/L		109	60 - 142	1	15
4-Chlorotoluene	50.0	44.05		ug/L		88	75 - 130	0	18
4-Methyl-2-pentanone (MIBK)	250	272.3		ug/L		109	60 - 137	1	17
Acetone	250	264.7		ug/L		106	54 - 145	11	21
Benzene	50.0	47.70		ug/L		95	80 - 121	2	17
Bromobenzene	50.0	44.13		ug/L		88	68 - 130	1	20
Bromochloromethane	50.0	52.85		ug/L		106	78 - 129	2	17
Bromodichloromethane	50.0	48.32		ug/L		97	75 - 129	1	18
Bromoform	50.0	53.24		ug/L		106	46 - 145	1	16
Bromomethane	50.0	55.96		ug/L		112	41 - 150	4	50
Carbon disulfide	50.0	47.00		ug/L		94	77 - 126	2	21
Carbon tetrachloride	50.0	51.02		ug/L		102	64 - 147	3	19
Chlorobenzene	50.0	46.59		ug/L		93	80 - 120	1	14
Chlorodibromomethane	50.0	50.57		ug/L		101	69 - 133	0	15

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-114514/4

Matrix: Water

Analysis Batch: 114514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
Chloroethane	50.0	54.12		ug/L		108	72 - 120	2	20
Chloroform	50.0	47.91		ug/L		96	73 - 129	2	18
Chloromethane	50.0	41.09		ug/L		82	12 - 150	2	31
cis-1,2-Dichloroethene	50.0	48.26		ug/L		97	76 - 125	2	17
cis-1,3-Dichloropropene	50.0	45.32		ug/L		91	74 - 140	1	15
Dibromomethane	50.0	53.44		ug/L		107	71 - 125	1	16
Dichlorodifluoromethane	50.0	72.35	*	ug/L		145	37 - 127	2	18
Ethylbenzene	50.0	45.21		ug/L		90	80 - 130	1	15
Hexachlorobutadiene	50.0	47.41		ug/L		95	49 - 146	1	23
Isopropylbenzene	50.0	46.26		ug/L		93	80 - 141	1	16
Methyl tert-butyl ether	50.0	49.50		ug/L		99	72 - 133	1	16
Methylene Chloride	50.0	49.80		ug/L		100	79 - 123	3	17
Naphthalene	50.0	51.30		ug/L		103	62 - 138	1	26
n-Butylbenzene	50.0	44.98		ug/L		90	68 - 132	2	18
N-Propylbenzene	50.0	45.04		ug/L		90	75 - 129	1	17
p-Isopropyltoluene	50.0	46.30		ug/L		93	75 - 128	3	16
sec-Butylbenzene	50.0	45.79		ug/L		92	76 - 128	2	16
Styrene	50.0	46.85		ug/L		94	80 - 127	1	24
tert-Butylbenzene	50.0	46.55		ug/L		93	76 - 126	2	16
Tetrachloroethene	50.0	50.27		ug/L		101	80 - 126	2	16
Toluene	50.0	44.36		ug/L		89	80 - 126	2	15
trans-1,2-Dichloroethene	50.0	48.85		ug/L		98	79 - 126	3	16
trans-1,3-Dichloropropene	50.0	45.95		ug/L		92	63 - 134	0	14
Trichloroethene	50.0	51.55		ug/L		103	80 - 123	2	17
Trichlorofluoromethane	50.0	54.38		ug/L		109	65 - 124	2	18
Vinyl chloride	50.0	54.95		ug/L		110	68 - 120	3	17
Xylenes, Total	100	89.13		ug/L		89	80 - 132	1	15

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	: T		70 - 150
4-mrofluorobenzenene (Surr)	: T		70 - 150
Dizrofluoroethane (Surr)	105		70 - 150
6oluene-dB (Surr)	: 9		70 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-113169/1-A

Matrix: Water

Analysis Batch: 113269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113169

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Acenaphthene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Acenaphthylene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Anthracene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Benzo[a]anthracene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Benzo[a]pyrene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Benzo[b]fluoranthene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Benzo[g,h,i]perylene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-113169/1-A

Matrix: Water

Analysis Batch: 113269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113169

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Pyrene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Phenanthrene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Chrysene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Dibenz(a,h)anthracene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Fluoranthene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Fluorene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Indeno[1,2,3-cd]pyrene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1
Naphthalene	ND		2.00	ug/L		10/09/13 15:15	10/10/13 13:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenyl (Surr)	77		2: - 120	10/09/13 15:19/19	10/31/13 15:15/27	1
6erphenyl-d14 (Surr)	BT		15 - 120	10/09/13 15:19/19	10/31/13 15:15/27	1
Nitrozoene-d9 (Surr)	7:		27 - 120	10/09/13 15:19/19	10/31/13 15:15/27	1

Lab Sample ID: LCS 490-113169/2-A

Matrix: Water

Analysis Batch: 113269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	39.79		ug/L		80	46 - 120
Acenaphthylene	50.0	39.62		ug/L		79	48 - 120
Anthracene	50.0	42.05		ug/L		84	58 - 130
Benzo[a]anthracene	50.0	41.98		ug/L		84	57 - 120
Benzo[a]pyrene	50.0	43.38		ug/L		87	57 - 124
Benzo[b]fluoranthene	50.0	42.00		ug/L		84	51 - 125
Benzo[g,h,i]perylene	50.0	49.05		ug/L		98	51 - 123
Benzo[k]fluoranthene	50.0	39.75		ug/L		79	51 - 120
Pyrene	50.0	38.13		ug/L		76	53 - 129
Phenanthrene	50.0	41.57		ug/L		83	56 - 120
Chrysene	50.0	40.26		ug/L		81	55 - 120
Dibenz(a,h)anthracene	50.0	47.95		ug/L		96	50 - 125
Fluoranthene	50.0	42.79		ug/L		86	56 - 120
Fluorene	50.0	42.42		ug/L		85	52 - 120
Indeno[1,2,3-cd]pyrene	50.0	48.48		ug/L		97	54 - 125
Naphthalene	50.0	29.12		ug/L		58	37 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenyl (Surr)	74		2: - 120
6erphenyl-d14 (Surr)	BT		15 - 120
Nitrozoene-d9 (Surr)	74		27 - 120

TestAmerica Nashville

QC Sample Results

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-112604/6
Matrix: Water
Analysis Batch: 112604

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100	ug/L			10/08/13 11:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
a,a,a-6riiburrotoluene	102		90 - 190				10/08/13 11:17	1

Lab Sample ID: LCS 490-112604/4
Matrix: Water
Analysis Batch: 112604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
C6-C10	1000	1071		ug/L		107	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
a,a,a-6riiburrotoluene	B7		90 - 190					

Lab Sample ID: LCSD 490-112604/5
Matrix: Water
Analysis Batch: 112604

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	1043		ug/L		104	70 - 130	3	42
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-6riiburrotoluene	B		90 - 190						

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 490-113096/1-A
Matrix: Water
Analysis Batch: 113317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113096

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		100	ug/L		10/09/13 13:44	10/10/13 13:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-6erphenyl (Surr)	B7		90 - 190			10/09/13 15:44	10/31/13 15:59	1

Lab Sample ID: LCS 490-113096/2-A
Matrix: Water
Analysis Batch: 113317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
C10-C28	1000	773.2		ug/L		77	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
o-6erphenyl (Surr)	: 0		90 - 190					

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

GC/MS VOA

Analysis Batch: 114166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	8260B	
490-37090-2	OR-5W	Total/NA	Water	8260B	
490-37090-3	OR-3W	Total/NA	Water	8260B	
490-37090-3 MS	OR-3W	Total/NA	Water	8260B	
490-37090-3 MSD	OR-3W	Total/NA	Water	8260B	
490-37090-4	OR-3S	Total/NA	Water	8260B	
490-37090-5	OR-5S	Total/NA	Water	8260B	
490-37090-6	OR-10S	Total/NA	Water	8260B	
490-37090-10	Trip Blank	Total/NA	Water	8260B	
LCS 490-114166/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-114166/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-114166/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 114513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-6	OR-10S	Total/NA	Water	8260B	
490-37253-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-37253-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-114513/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-114513/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-114513/13	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 114514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-7	OS-15S	Total/NA	Water	8260B	
490-37090-8	OS-10S	Total/NA	Water	8260B	
490-37090-9	OS-10E	Total/NA	Water	8260B	
LCS 490-114514/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-114514/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-114514/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 113169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	3510C	
490-37090-2	OR-5W	Total/NA	Water	3510C	
490-37090-3	OR-3W	Total/NA	Water	3510C	
490-37090-4	OR-3S	Total/NA	Water	3510C	
490-37090-5	OR-5S	Total/NA	Water	3510C	
490-37090-6	OR-10S	Total/NA	Water	3510C	
490-37090-7	OS-15S	Total/NA	Water	3510C	
490-37090-8	OS-10S	Total/NA	Water	3510C	
490-37090-9	OS-10E	Total/NA	Water	3510C	
LCS 490-113169/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-113169/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 113269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	8270D	113169

TestAmerica Nashville

QC Association Summary

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

GC/MS Semi VOA (Continued)

Analysis Batch: 113269 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-2	OR-5W	Total/NA	Water	8270D	113169
490-37090-3	OR-3W	Total/NA	Water	8270D	113169
490-37090-4	OR-3S	Total/NA	Water	8270D	113169
490-37090-5	OR-5S	Total/NA	Water	8270D	113169
490-37090-6	OR-10S	Total/NA	Water	8270D	113169
490-37090-7	OS-15S	Total/NA	Water	8270D	113169
490-37090-8	OS-10S	Total/NA	Water	8270D	113169
490-37090-9	OS-10E	Total/NA	Water	8270D	113169
LCS 490-113169/2-A	Lab Control Sample	Total/NA	Water	8270D	113169
MB 490-113169/1-A	Method Blank	Total/NA	Water	8270D	113169

Analysis Batch: 113714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-6	OR-10S	Total/NA	Water	8270D	113169

GC VOA

Analysis Batch: 112604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	8015C	
490-37090-2	OR-5W	Total/NA	Water	8015C	
490-37090-3	OR-3W	Total/NA	Water	8015C	
490-37090-4	OR-3S	Total/NA	Water	8015C	
490-37090-5	OR-5S	Total/NA	Water	8015C	
490-37090-6	OR-10S	Total/NA	Water	8015C	
490-37090-7	OS-15S	Total/NA	Water	8015C	
490-37090-8	OS-10S	Total/NA	Water	8015C	
490-37090-9	OS-10E	Total/NA	Water	8015C	
LCS 490-112604/4	Lab Control Sample	Total/NA	Water	8015C	
LCS 490-112604/5	Lab Control Sample Dup	Total/NA	Water	8015C	
MB 490-112604/6	Method Blank	Total/NA	Water	8015C	

GC Semi VOA

Prep Batch: 113096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	3510C	
490-37090-2	OR-5W	Total/NA	Water	3510C	
490-37090-3	OR-3W	Total/NA	Water	3510C	
490-37090-4	OR-3S	Total/NA	Water	3510C	
490-37090-5	OR-5S	Total/NA	Water	3510C	
490-37090-6	OR-10S	Total/NA	Water	3510C	
490-37090-7	OS-15S	Total/NA	Water	3510C	
490-37090-8	OS-10S	Total/NA	Water	3510C	
490-37090-9	OS-10E	Total/NA	Water	3510C	
LCS 490-113096/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-113096/1-A	Method Blank	Total/NA	Water	3510C	

QC Association Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

GC Semi VOA (Continued)

Analysis Batch: 113317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37090-1	MW-13 ISOC	Total/NA	Water	8015C	113096
490-37090-2	OR-5W	Total/NA	Water	8015C	113096
490-37090-3	OR-3W	Total/NA	Water	8015C	113096
490-37090-4	OR-3S	Total/NA	Water	8015C	113096
490-37090-5	OR-5S	Total/NA	Water	8015C	113096
490-37090-6	OR-10S	Total/NA	Water	8015C	113096
490-37090-7	OS-15S	Total/NA	Water	8015C	113096
490-37090-8	OS-10S	Total/NA	Water	8015C	113096
490-37090-9	OS-10E	Total/NA	Water	8015C	113096
LCS 490-113096/2-A	Lab Control Sample	Total/NA	Water	8015C	113096
MB 490-113096/1-A	Method Blank	Total/NA	Water	8015C	113096

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: MW-13 ISOC

Lab Sample ID: 490-37090-1

Date Collected: 10/03/13 10:50

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 15:44	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 14:21	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 12:48	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 14:05	KKH	TAL NSH

Client Sample ID: OR-5W

Lab Sample ID: 490-37090-2

Date Collected: 10/03/13 11:45

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 16:11	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 14:48	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 13:18	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 14:21	KKH	TAL NSH

Client Sample ID: OR-3W

Lab Sample ID: 490-37090-3

Date Collected: 10/03/13 12:35

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 17:06	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 15:15	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 13:48	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 14:36	KKH	TAL NSH

Client Sample ID: OR-3S

Lab Sample ID: 490-37090-4

Date Collected: 10/03/13 13:20

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 17:39	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 15:42	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 14:18	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 14:51	KKH	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OR-5S

Lab Sample ID: 490-37090-5

Date Collected: 10/03/13 14:15

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 18:06	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 16:09	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 14:49	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 15:06	KKH	TAL NSH

Client Sample ID: OR-10S

Lab Sample ID: 490-37090-6

Date Collected: 10/03/13 15:30

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 18:33	BJM	TAL NSH
Total/NA	Analysis	8260B		10	114513	10/16/13 01:00	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 16:36	BES	TAL NSH
Total/NA	Analysis	8270D		5	113714	10/11/13 15:03	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 15:19	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		4	113317	10/11/13 10:53	KKH	TAL NSH

Client Sample ID: OS-15S

Lab Sample ID: 490-37090-7

Date Collected: 10/03/13 16:15

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114514	10/16/13 06:57	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 17:03	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 15:49	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 15:52	KKH	TAL NSH

Client Sample ID: OS-10S

Lab Sample ID: 490-37090-8

Date Collected: 10/03/13 17:00

Matrix: Water

Date Received: 10/05/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114514	10/16/13 07:24	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 17:30	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 16:19	GWM	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Duke Energy Corporation
 Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Client Sample ID: OS-10S

Date Collected: 10/03/13 17:00
 Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 15:37	KKH	TAL NSH

Client Sample ID: OS-10E

Date Collected: 10/03/13 18:00
 Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114514	10/16/13 07:51	BJM	TAL NSH
Total/NA	Prep	3510C			113169	10/09/13 15:15	RCH	TAL NSH
Total/NA	Analysis	8270D		1	113269	10/10/13 17:57	BES	TAL NSH
Total/NA	Analysis	8015C		1	112604	10/08/13 16:49	GWM	TAL NSH
Total/NA	Prep	3510C			113096	10/09/13 13:44	CLH	TAL NSH
Total/NA	Analysis	8015C		1	113317	10/10/13 16:07	KKH	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 10/03/13 08:00
 Date Received: 10/05/13 08:15

Lab Sample ID: 490-37090-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	114166	10/14/13 15:16	BJM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Duke Energy Corporation
Project/Site: Pine Street MGP (Spartanburg) J13100149

TestAmerica Job ID: 490-37090-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
South Carolina	State Program	4	84009 (001)	02-28-14

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COOLER RECEIPT FORM



490-37090 Chain of Custody

Cooler Received/Opened On : 10/5/2013 @ 0815

Tracking # 3784 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 12080142

1. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO... NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...# _____

COOLER RECEIPT FORM

Cooler Received/Opened On 10/5/2013 @ 815

1. Tracking # 3730 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 0.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

COOLER RECEIPT FORM

Loc: 490
37090

Cooler Received/Opened On: 10/5/2013 @0815

1. Tracking # 3762 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 0.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# _____

COOLER RECEIPT FORM

Loc: 490
37090

Cooler Received/Opened On : 10/5/2013 @ 0815

Tracking # 3740 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 12080142

1. Temperature of rep. sample or temp blank when opened: 2.0 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA
4. Were custody seals on outside of cooler?
If yes, how many and where: 1 Front YES...NO...NA
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES NO and Intact YES NO NA
Were these signed and dated correctly? YES...NO... NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received?
b. Was there any observable headspace present in any VOA vial? AJH YES...NO... NA
14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO... NA
16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...# _____

COOLER RECEIPT FORM

Cooler Received/Opened On 10/5/2013 @ 0815

1. Tracking # 3773 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES.. NO..NA

I certify that I opened the cooler and answered questions 1-6 (initial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO.. NA

Were these signed and dated correctly? YES...NO.. NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES... NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO.. NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO.. NA

16. Was residual chlorine present? YES...NO.. NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES.. NO...# _____

Chain of Custody Record

TestAmerica Laboratory location: Nashville DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact Company Name: <u>Duke Energy/AMEC</u> Address: <u>2801 Yorkmont Rd</u> City/State/Zip: <u>Charlotte, NC 28208</u> Phone: <u>704-357-8600</u> Project Name: <u>Duke Energy - Spartanburg</u> Project Number: <u>6228-12-0021</u> P.O.#:		Client Project Manager: Name: <u>Andy Clark</u> Telephone: <u>704-357-8600</u> Email: <u>andy.clark@amec.com</u>		Site Contact: Name: <u>Troy Holzschuh</u> Telephone: <u>704-357-8600</u>		Lab Contact: Name: <u>Candace Bonham</u> Telephone:		COC No: <u>060372</u> 1 of 1 COCs	
Analysis Turnaround Time (in BUS days) <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Containers & Preservatives HCl <input type="checkbox"/> ZnAc <input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Other:		Filtered Sample (Y/N)		Composite (C/Grab/G)		For lab use only Walk-in client <input type="checkbox"/> Lab pickup <input type="checkbox"/> Lab sampling <input type="checkbox"/> Job/SDG No:	
Method of Shipment/Carrier: Shipping/Tracking No:		Matrix Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Sediment <input type="checkbox"/> Solid <input type="checkbox"/> Other:		Sample Date		Sample Time		Analyses 8260 P4H DRD DRD 8270 P4H	
Sample Identification		Sample Date		Sample Time		Loc: 490 37090		Sample Specific Notes / Special Instructions:	
1	MW-13 ISOC	10-3-13	1050	X	X	X	X	X	
2	OR-5W		1145	X	X	X	X	X	
3	OR-3W		1235	X	X	X	X	X	
4	OR-3S		1320	X	X	X	X	X	
5	OR-5S		1415	X	X	X	X	X	
6	OR-10S		1530	X	X	X	X	X	
7	OS-15S		1615	X	X	X	X	X	
8	OS-10S		1700	X	X	X	X	X	
9	OS-10E		1800	X	X	X	X	X	
10	Trip Blank		800	X	X	X	X	X	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: <u>Jim Holzschuh</u>	Company: <u>AMEC</u>	Date/Time: <u>10-4-13/910</u>	Received by: <u>C. Bonham</u>	Company: <u>TA</u>	Date/Time: <u>10/04/13/0905</u>
Relinquished by: <u>C. Bonham</u>	Company: <u>TA</u>	Date/Time: <u>10/4/13/1730</u>	Received by: <u>Cherie Hershberg</u>	Company: <u>TA</u>	Date/Time: <u>10/05/13/8:15</u>
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:



Login Sample Receipt Checklist

Client: Duke Energy Corporation

Job Number: 490-37090-1

Login Number: 37090

List Source: TestAmerica Nashville

List Number: 1

Creator: Huskey, Adam

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	