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October 26, 2020

Mr. Greg Cassidy  
South Carolina Department of Health and Environmental Control  
Division of Site Assessment, Remediation, and Revitalization  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Quarterly Progress Report – Third Quarter 2020  
Former Bramlette Manufactured Gas Plant  
400 East Bramlette Road  
Greenville, South Carolina  
VCC 16-5857-RP

Dear Mr. Cassidy:

This Quarterly Progress Report has been prepared for the referenced site (**Figure 1**) in accordance with the requirements of the Responsible Party Voluntary Cleanup Contract (VCC 16-5857-RP) between Duke Energy Carolinas (Duke Energy) and the South Carolina Department of Health and Environmental Control (SCDHEC), dated July 29, 2016.

The following sections provide a summary of work performed during the reporting period, test and sampling results generated during the reporting period, environmental problems experienced during the reporting period and their resolution, and work to be performed during the next reporting period. Monitoring wells were installed in accordance with SCDHEC Monitoring Well Approval MW-12085, dated August 6, 2019, pursuant to the provisions of South Carolina Well Standards R.61-71. The work was conducted in accordance with the July 2, 2019 Remedial Investigation Work Plan Addendum (RIWP-A) submitted by Duke Energy and approved by the SCDHEC on August 6, 2019.

A Remedial Investigation (RI) Report was submitted to SCDHEC on June 26, 2020, and subsequently approved on September 1, 2020. Additional monitoring wells were installed after the report submittal to complete delineation of the horizontal and vertical extent of MGP-related constituents in affected media in accordance with the VCC. Upon completion of additional assessment activities, an RI Report Addendum will be prepared and submitted to SCDHEC.

### Work Performed During the Reporting Period

Activities performed during the third quarter (July 1 through September 30, 2020) included the following:

Date	RI Activity
July 14 – July 15, 2020	<b>Groundwater Sampling</b> – Collected groundwater samples from monitoring wells MW-35BR, MW-38S/BR, MW-43S/TZ/BR, MW-44TZ/BR, MW-45BR, MW-46BR, and MW-47BR for analysis of VOCs and SVOCs ( <b>Table 2</b> ).
July 15 – July 16, 2020	<b>Slug Testing</b> – Slug tested monitoring wells MW-35BR, MW-38S/BR, MW-43S/TZ/BR, MW-44TZ/BR, MW-45BR, MW-46BR, and MW-47BR ( <b>Table 1</b> ).
July 22, 2020	<b>Second Quarter 2020 Progress Report</b> – Submitted Second Quarter 2020 Progress Report in accordance with the VCC.
August 19 – August 21, 2020	<b>Hand Auger Borings</b> – Advanced shallow (total depth less than five feet) borings (RI-SB-13 through RI-SB-26) on Legacy Charter School property east of the Vaughn Landfill for NAPL identification and lithologic description. Locations are shown in <b>Figure 2</b> .
August 22 – August 29, 2020	<b>Legacy Charter Borings/GW Samples</b> – Drilled soil borings LC-SB-01 through LC-SB-14 in Legacy Charter School parking loop east of the jurisdictional wetlands. Groundwater samples were analyzed for VOCs and SVOCs. Soil boring locations are shown in <b>Figure 2</b> .
August 2020	<b>Monitoring Well Survey</b> – Surveyed 11 monitoring wells installed during the previous reporting period for location and elevation.
August 28, 2020	<b>Reporting</b> – Submitted Remedial Investigation Work Plan Addendum (Former Stormwater Conveyance Ditches) to SCDHEC on August 28, 2020.
September 9, 2020	<b>Sediment Sampling</b> - Collected sediment samples from an upgradient stormwater collection basin (REF1) and SW-12 for analysis of VOCs, SVOCs, PIANO VOCs, saturated hydrocarbons, and alkylated PAHs ( <b>Table 3</b> ).
September 9, 2020	<b>CSXT Environmental Right of Entry Amendment (EROE)</b> – Submitted Amendment 6 to the CSXT EROE allowing access to complete RIWP-A proposed scope of work.
September 10, 2020	<b>Site Maintenance Clearing</b> – Cleared vegetation and pathways for monitoring well access on Parcels 1, 2, 3 and 4.

Date	RI Activity
September 17, 2020	<b>Wetland Delineation</b> – Performed wetland delineation field visit in order to obtain necessary US Army Corps of Engineers (USACE) Nationwide Permit 38 to proceed with assessment of historical stormwater conveyances.
July 10 – September 18, 2020	<b>Well Gauging</b> – Gauged a select number of monitoring wells based on drilling observations for presence/absence of NAPL. Wells were gauged weekly for a ten-week period ( <b>Table 5</b> ).
September 21 – September 29, 2020	<b>Groundwater Sampling</b> – Conducted a site-wide semi-annual groundwater sampling event. Groundwater samples were collected for analysis of VOCs and SVOCs ( <b>Table 1</b> ).
September 20 – September 25, 2020	<b>Fencing Installation</b> – Installed fencing on Legacy Elementary Charter School Property to restrict access to wetlands.
July – September 2020	<b>Water Level/Data Loggers</b> – Collected third quarter water level data from data loggers installed in monitoring wells in the Vaughn Landfill (MW-03BR and MW-20) and along the Reedy River/Swamp Rabbit Trail (MW-31S, MW-31TZ, MW-33S, and MW-33TZ).
July – September	<b>Renewable Water Resources (ReWa) Support</b> – ReWa is completing improvements to sewer infrastructure that passes through the site boundary. Vacuum excavation was completed to verify absence of NAPL in soils to be excavated as part of the improvement project. Additional support related to constituent concentrations in groundwater is ongoing.

### Summary of Test and Sampling Results Generated During Reporting Period

A summary of the test and sampling results for work performed during the third quarter (July 1 through September 30, 2020) is provided below:

- Slug testing calculations and hydraulic conductivity data are listed in **Table 1**.
- Laboratory analytical results for groundwater samples collected during July and August 2020 are included in **Table 2**. Analytical laboratory reports are provided in **Attachment A**. Laboratory analytical results for groundwater samples collected in late September 2020 are currently not available and will be provided in the Fourth Quarter Progress Report.
- Laboratory analytical results for sediment samples collected during September 2020 are included in **Table 3**.
- Boring logs and DHEC 1903 forms for borings installed on Legacy Elementary property are included in **Attachment B**.

- Time series hydrographs are included for wells adjacent to the Reedy River (South) (**Figure 3**), adjacent to the Reedy River (North) (**Figure 4**) and the Vaughn landfill (**Figure 5**).
- A select number of wells were gauged weekly for NAPL thickness for a period of nine weeks (**Table 4**).

**Environmental Problems Identified During Reporting Period and Their Resolution**

No problems were identified during the third quarter reporting period.

**Work to be Performed During the Next Reporting Period (Fourth Quarter 2020)**

The following activities are scheduled to be conducted during the fourth quarter of 2020 (October 1 through December 31, 2020). The proposed schedule is subject to change based on safe work practices, weather conditions, site access, availability of subcontractors, and other unforeseen delays. Field work notifications will be provided in accordance with the VCC and access agreements.

Proposed Date	RI Activity
October - December	Download and monitor water level transducers/data loggers in monitoring wells and Reedy River stage from a United States Geological Survey (USGS) stream gaging station located downstream of the site
October - December	Continue support of ReWa sewer improvement project as necessary
October - November	Continue work to obtain USACE Nationwide Permit 38 coverage
October	Download and monitor water level transducers/data loggers in monitoring wells and Reedy River stage from a United States Geological Survey (USGS) stream gaging station located downstream of the site
October	Submit Aquifer Performance Test Work Plan to SCDHEC, which details the objectives and strategies of the planned Aquifer Performance Test at the site
November - December	Conduct an Aquifer Performance Test (December 2020) in accordance with Aquifer Performance Test Work Plan.



Mr. Greg Cassidy

October 26, 2020

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If you have any questions regarding this submittal, please contact me at 980.373.2663 or by email at [Richard.Powell2@duke-energy.com](mailto:Richard.Powell2@duke-energy.com).

Sincerely,

*Richard E. Powell*

Richard E. Powell, P.G.

Lead Environmental Specialist

cc: Kevin Boland, CSXT  
Daniel Schmitt, Esq., CSXT  
Ty Houck, Greenville County  
William W. Brown, Legacy School Properties, LLC  
Todd Plating, SynTerra

Enclosures:

**Figures**

Figure 1 – Site Layout Map

Figure 2 – Legacy Charter School Soil Borings

Figure 3 – Reedy River South (Swamp Rabbit Trail) Hydrographs (MW-31S/MW-31TZ)

Figure 4 – Reedy River North (Swamp Rabbit Trail) Hydrographs (MW-33S/MW-33TZ)

Figure 5 – Vaughn Landfill Area (Parcel 3) Hydrographs (MW-20/MW-03BR)

**Tables**

Table 1 – Slug Test Data

Table 2 – Groundwater Analytical Results Summary

Table 3 – Sediment Analytical Results Summary

Table 4 – Well Gauging Details

**Attachment A** – Analytical Laboratory Reports

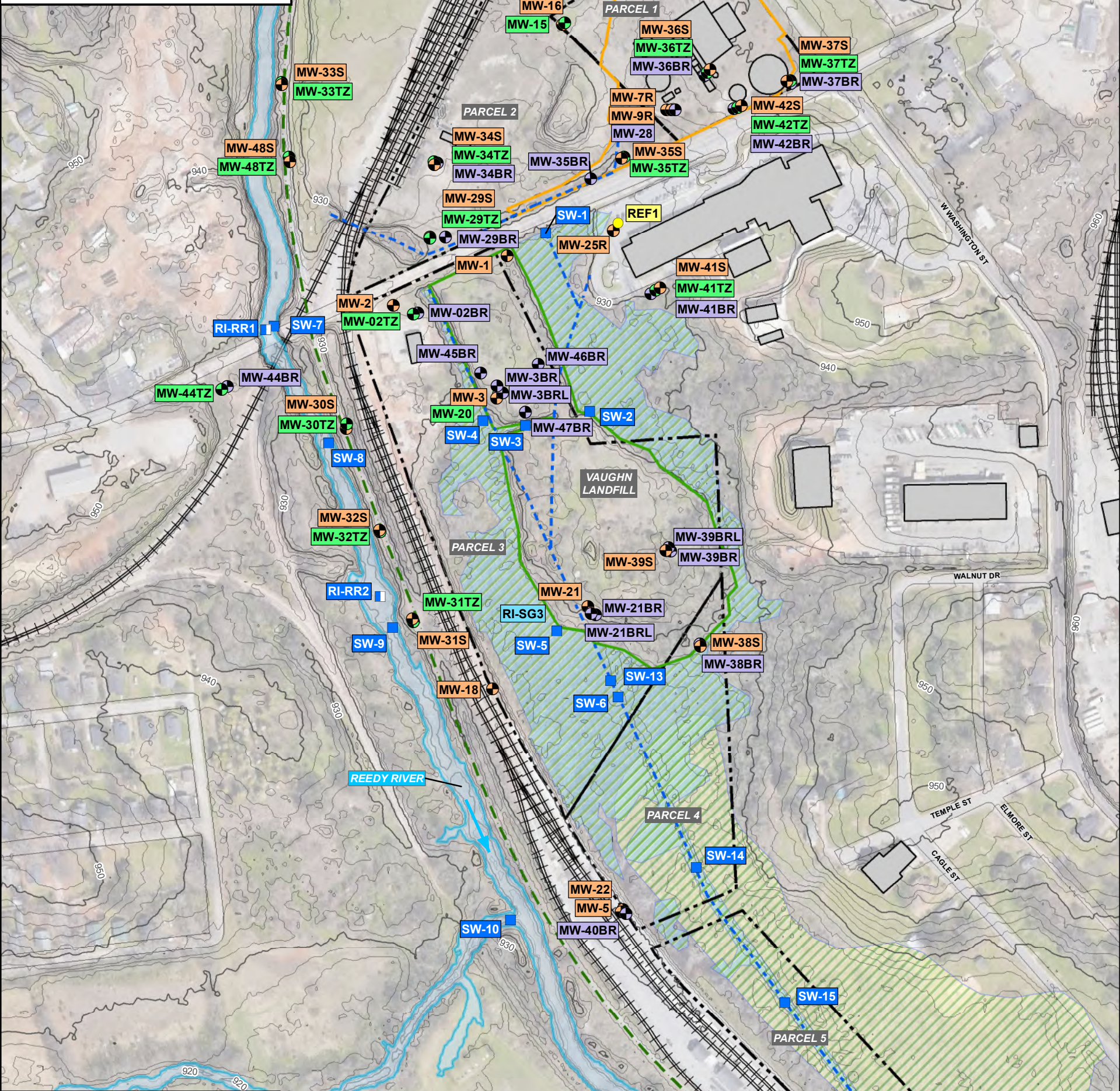
**Attachment B** – DHEC 1903 Forms

## **FIGURES**



**NOTES:**

- ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
- SURFACE WATER LOCATIONS, FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
- MONITORING WELL LOCATIONS AND ELEVATIONS SURVEYED BY A SOUTH CAROLINA LICENSED PROFESSIONAL LAND SURVEYOR
- TOPOGRAPHIC CONTOURS FOR GREENVILLE COUNTY FROM SC DNR (2013).
- PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
- WETLANDS (USFWS) BY US FISH AND WILDLIFE NATIONAL WETLAND INVENTORY. WETLANDS (AES) DELINEATED BY APPLIED ENGINEERING AND SCIENCE, INC. IN 1999.
- SWAMP RABBIT TRAIL CENTERLINE FROM CITY OF GREENVILLE.
- AERIAL PHOTOGRAPHY OBTAINED FROM GOOGLE EARTH PRO ON MAY 3, 2019. AERIAL WAS COLLECTED ON MARCH 12, 2018.
- DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).



**LEGEND**

- WELL SCREENED IN SHALLOW ZONE
- WELL SCREENED IN TRANSITION ZONE
- WELL SCREENED IN BEDROCK ZONE
- SURFACE WATER/SEDIMENT SAMPLE LOCATION
- RIVER GAUGE
- SOIL BORING LOCATION
- SEDIMENT SAMPLE LOCATION
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- TOPOGRAPHIC CONTOUR (2' INTERVAL)
- FORMER DRAINAGE DITCH (1964)
- ROAD
- SWAMP RABBIT TRAIL
- RAILROAD
- BUILDING
- EXCAVATED AREA (2001-2002)
- VAUGHN LANDFILL BOUNDARY
- HYDROLOGY
- PARCEL BOUNDARY
- WETLANDS (AES)
- WETLANDS (USFWS)

GRAPHIC SCALE

125 0 125 250

(IN FEET)

DRAWN BY: T. KING      DATE: 05/21/2019

REVISED BY: B. MCGANN      DATE: 10/13/2020

CHECKED BY: L. DRAGO      DATE: 10/13/2020

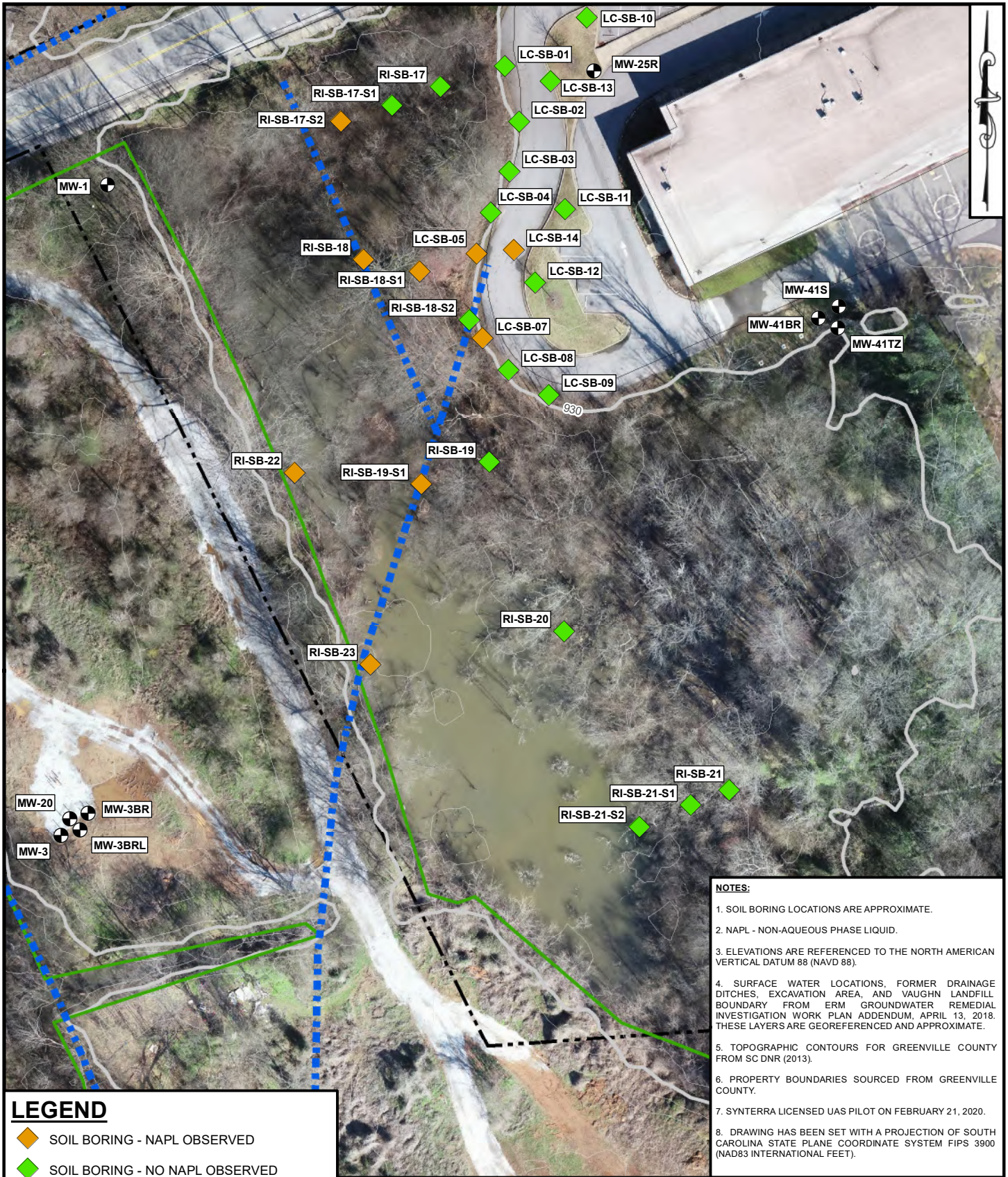
APPROVED BY: T. PLATING      DATE: 10/13/2020

PROJECT MANAGER: T. PLATING

[www.synterracorp.com](http://www.synterracorp.com)

**FIGURE 1**  
**SITE LAYOUT MAP**  
**QUARTLY STATUS REPORT-**  
**THIRD QUARTER 2020**  
**FORMER BRAMLETTE MGP SITE**  
**EAST BRAMLETTE ROAD**  
**GREENVILLE, SOUTH CAROLINA**

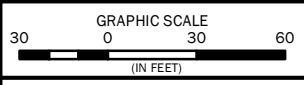




- NOTES:**
- SOIL BORING LOCATIONS ARE APPROXIMATE.
  - NAPL - NON-AQUEOUS PHASE LIQUID.
  - ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
  - SURFACE WATER LOCATIONS, FORMER DRAINAGE DITCHES, EXCAVATION AREA, AND VAUGHN LANDFILL BOUNDARY FROM ERM GROUNDWATER REMEDIAL INVESTIGATION WORK PLAN ADDENDUM, APRIL 13, 2018. THESE LAYERS ARE GEOREFERENCED AND APPROXIMATE.
  - TOPOGRAPHIC CONTOURS FOR GREENVILLE COUNTY FROM SC DNR (2013).
  - PROPERTY BOUNDARIES SOURCED FROM GREENVILLE COUNTY.
  - SYNTERRA LICENSED UAS PILOT ON FEBRUARY 21, 2020.
  - DRAWING HAS BEEN SET WITH A PROJECTION OF SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM FIPS 3900 (NAD83 INTERNATIONAL FEET).

**LEGEND**

- ◆ SOIL BORING - NAPL OBSERVED
- ◆ SOIL BORING - NO NAPL OBSERVED
- GROUNDWATER MONITORING WELL
- TOPOGRAPHIC CONTOUR (10' INTERVAL)
- TOPOGRAPHIC CONTOUR (2' INTERVAL)
- FORMER DRAINAGE DITCH (1964)
- VAUGHN LANDFILL BOUNDARY
- PARCEL BOUNDARY
- ROAD

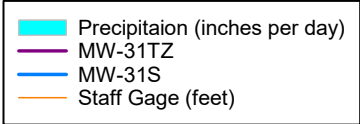
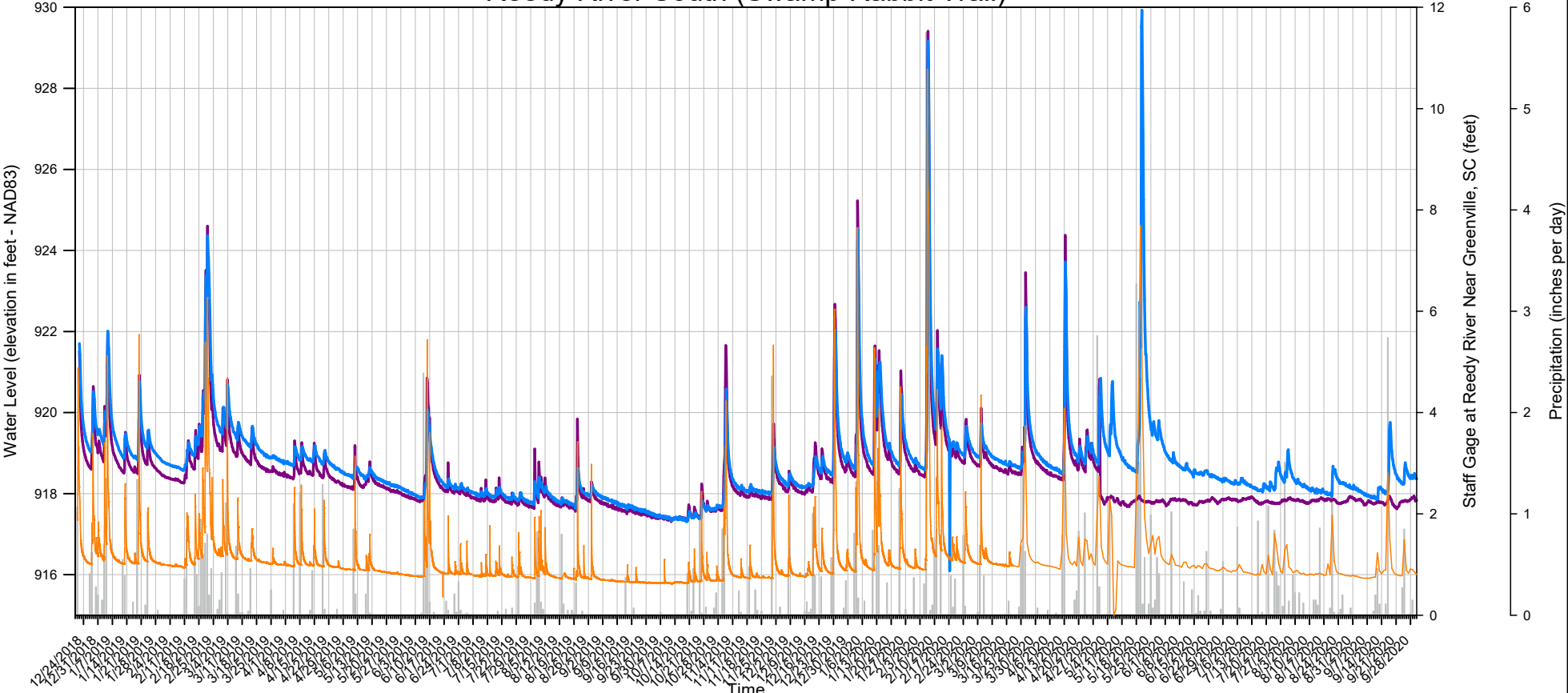


DRAWN BY: T. KING      DATE: 05/21/2019  
 REVISED BY: C. ALMOND      DATE: 10/06/2020  
 CHECKED BY: T. PLATING      DATE: 10/06/2020  
 APPROVED BY: T. PLATING      DATE: 10/06/2020  
 PROJECT MANAGER: T. PLATING  
[www.synterracorp.com](http://www.synterracorp.com)

**FIGURE 2**  
**LEGACY CHARTER SCHOOL**  
**SOIL BORINGS**  
**QUARTERLY STATUS REPORT-**  
**THIRD QUARTER 2020**  
**FORMER BRAMLETTE MGP SITE**  
**EAST BRAMLETTE ROAD**  
**GREENVILLE, SOUTH CAROLINA**



### Reedy River South (Swamp Rabbit Trail)



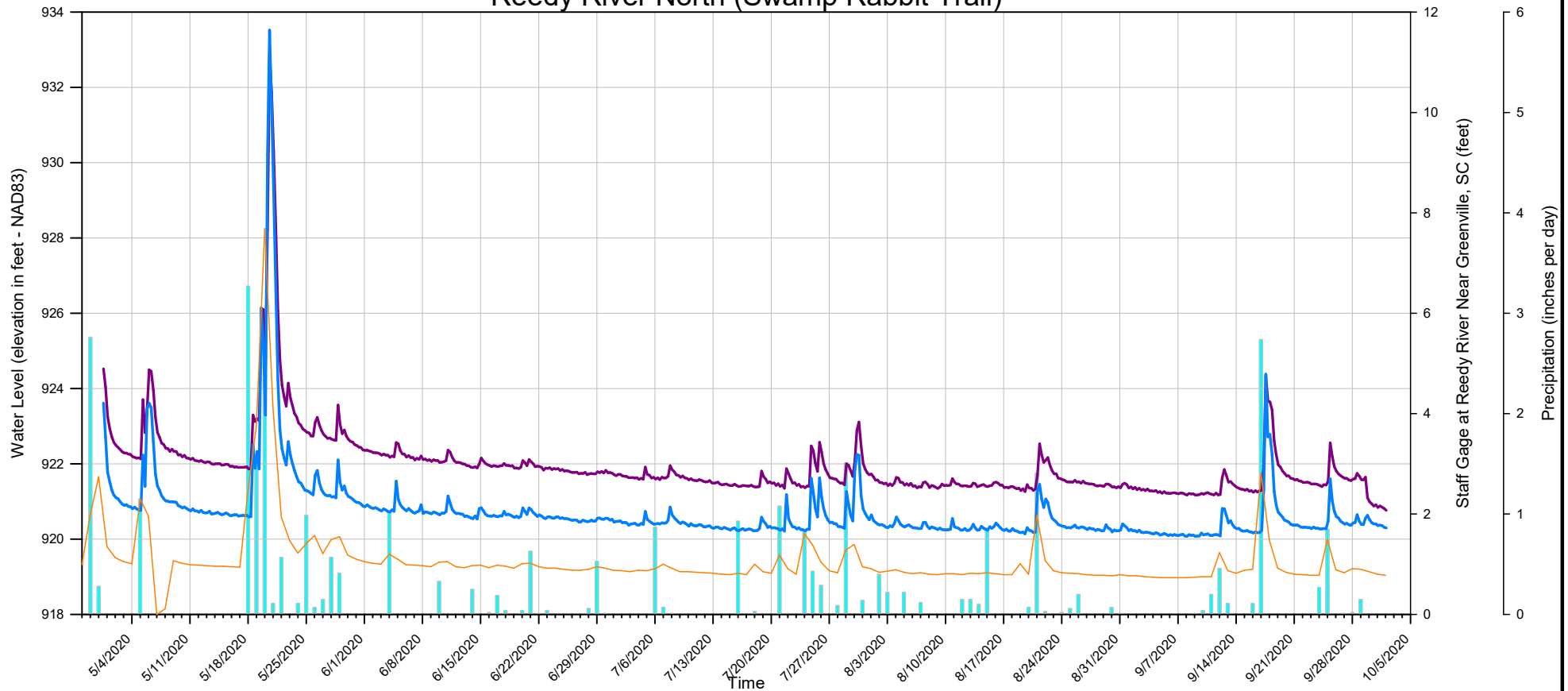
148 RIVER STREET, SUITE 220  
 GREENVILLE, SOUTH CAROLINA 29601  
 PHONE 864-421-9999  
 www.synterrarcop.com

DRAWN BY: T KING      DATE: OCTOBER 2020  
 PROJECT MANAGER: T PLATING  
 LAYOUT:

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**FIGURE 3**  
**REEDY RIVER SOUTH HYDROGRAPHS**  
**QUARTERLY STATUS REPORT – THIRD QUARTER 2020**  
**FORMER BRAMLETTE MGP SITE**  
**EAST BRAMLETTE ROAD**  
**GREENVILLE, SOUTH CAROLINA**

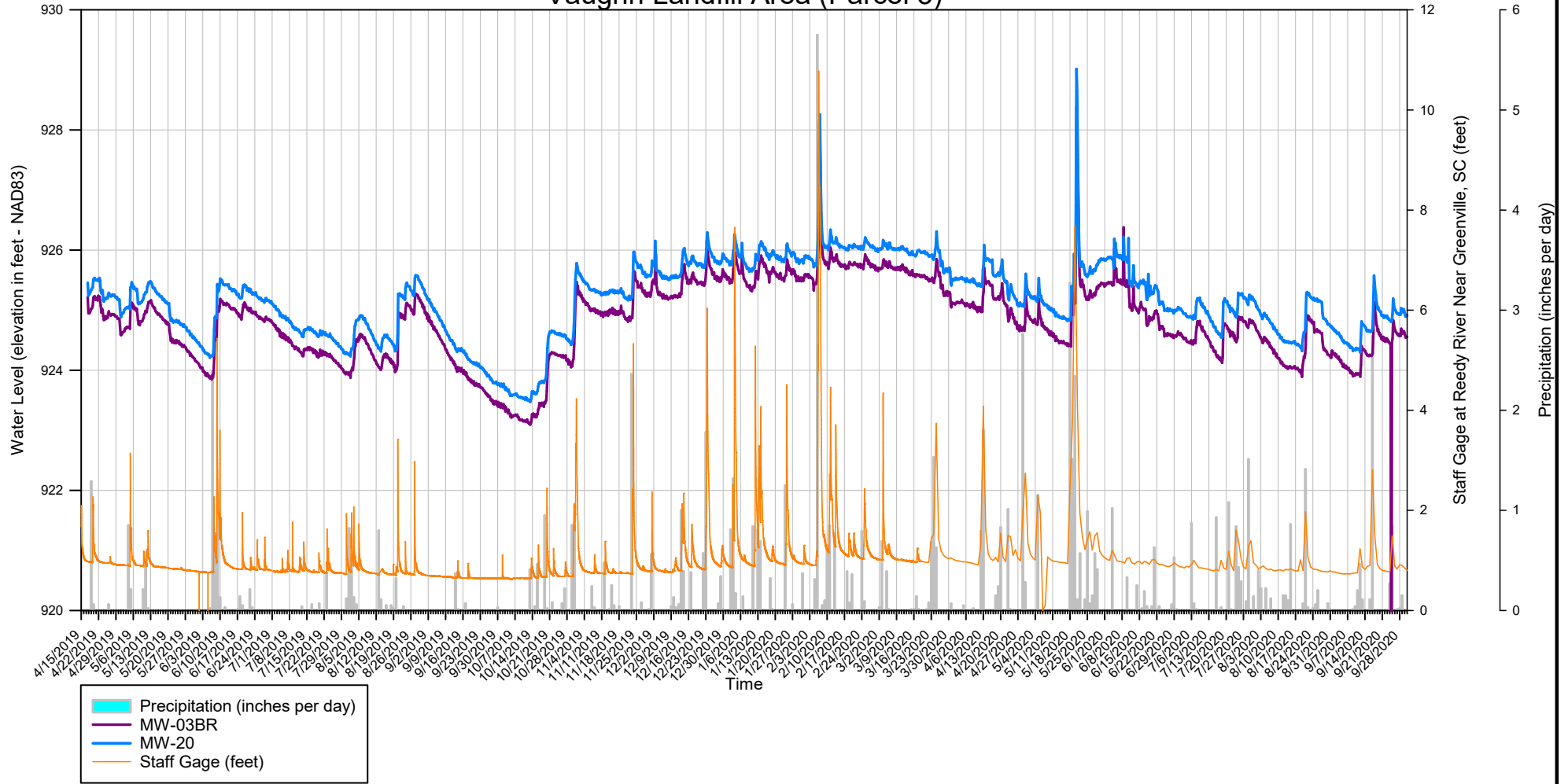
## Reedy River North (Swamp Rabbit Trail)



- Precipitaion (inches per day)
- MW-33TZ
- MW-33S
- Staff Gage (feet)

		148 RIVER STREET, SUITE 220 GREENVILLE, SOUTH CAROLINA 29601 PHONE 864-421-9999 www.synterracorp.com	<b>FIGURE 4</b> <b>REEDY RIVER NORTH HYDROGRAPHS</b> <b>QUARTERLY STATUS REPORT – THIRD QUARTER 2020</b> <b>FORMER BRAMLETTE MGP SITE</b> <b>EAST BRAMLETTE ROAD</b> <b>GREENVILLE, SOUTH CAROLINA</b>
		DRAWN BY: T KING      DATE: OCTOBER 2020 PROJECT MANAGER: T PLATING LAYOUT:	
		www.synterracorp.com	

### Vaughn Landfill Area (Parcel 3)



		148 RIVER STREET, SUITE 220 GREENVILLE, SOUTH CAROLINA 29601 PHONE 864-421-9999 www.synterracorp.com	<b>FIGURE 5</b> <b>VAUGHN LANDFILL AREA (PARCEL 3) HYDROGRAPHS</b> <b>QUARTERLY STATUS REPORT – THIRD QUARTER 2020</b> <b>FORMER BRAMLETTE MGP SITE</b> <b>EAST BRAMLETTE ROAD</b> <b>GREENVILLE, SOUTH CAROLINA</b>
		DRAWN BY: T KING      DATE: OCTOBER 2020 PROJECT MANAGER: T PLATING LAYOUT:	

# **TABLES**



**TABLE 1  
SLUG TEST DATA  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP SITE  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

SHALLOW ZONE								
Well ID	Slug Test	Slug Test Number	Analytical Solution	Flow Zone	Hydraulic Conductivity (cm/sec)		Hydraulic Conductivity (ft/day)	
					Measured	Geometric Mean	Measured	Geometric Mean
MW-38S	Falling Head	Test 1	Hvorslev	Shallow	3.67E-03	3.85E-03	1.04E+01	1.09E+01
	Rising Head	Test 2	Hvorslev	Shallow	3.79E-03		1.08E+01	
	Falling Head	Test 3	Hvorslev	Shallow	3.77E-03		1.07E+01	
	Rising Head	Test 4	Hvorslev	Shallow	3.88E-03		1.10E+01	
	Falling Head	Test 5	Hvorslev	Shallow	3.78E-03		1.07E+01	
	Rising Head	Test 6	Hvorslev	Shallow	4.24E-03		1.20E+01	
MW-43S	Falling Head	Test 1	Hvorslev	Shallow	2.90E-03	2.73E-03	8.22E+00	7.75E+00
	Rising Head	Test 2	Bouwer-Rice	Shallow	2.44E-03		6.92E+00	
	Falling Head	Test 3	Hvorslev	Shallow	2.81E-03		7.98E+00	
	Rising Head	Test 4	Bouwer-Rice	Shallow	3.40E-03		9.65E+00	
	Falling Head	Test 5	Hvorslev	Shallow	1.99E-03		5.65E+00	
	Rising Head	Test 6	Bouwer-Rice	Shallow	3.09E-03		8.75E+00	
TRANSITION ZONE								
MW-43TZ	Falling Head	Test 1	Hvorslev	Transition Zone	8.47E-04	8.08E-04	2.40E+00	2.29E+00
	Rising Head	Test 2	Hvorslev	Transition Zone	7.96E-04		2.26E+00	
	Falling Head	Test 3	Hvorslev	Transition Zone	8.33E-04		2.36E+00	
	Rising Head	Test 4	Hvorslev	Transition Zone	7.80E-04		2.21E+00	
	Falling Head	Test 5	Hvorslev	Transition Zone	8.32E-04		2.36E+00	
	Rising Head	Test 6	Hvorslev	Transition Zone	7.61E-04		2.16E+00	
MW-44TZ	Falling Head	Test 1	Hvorslev	Transition Zone	1.00E-02	1.05E-02	2.84E+01	2.98E+01
	Rising Head	Test 2	Hvorslev	Transition Zone	1.15E-02		3.26E+01	
	Falling Head	Test 3	Hvorslev	Transition Zone	9.42E-03		2.67E+01	
	Rising Head	Test 4	Hvorslev	Transition Zone	1.15E-02		3.27E+01	
	Falling Head	Test 5	Hvorslev	Transition Zone	9.44E-03		2.68E+01	
	Rising Head	Test 6	Hvorslev	Transition Zone	1.15E-02		3.26E+01	
BEDROCK ZONE								
MW-35BR	Falling Head	Test 1	Hvorslev	Bedrock	3.65E-07	3.65E-07	1.03E-03	1.03E-03
MW-38BR	Falling Head	Test 1	Hvorslev	Bedrock	1.61E-03	1.52E-03	4.57E+00	4.30E+00
	Rising Head	Test 2	Hvorslev	Bedrock	1.43E-03		4.05E+00	
MW-43BR	Rising Head	Test 1	Hvorslev	Bedrock	1.13E-05	1.13E-05	3.20E-02	3.20E-02
MW-44BR	Falling Head	Test 1	Hvorslev	Bedrock	1.11E-04	6.94E-05	3.15E-01	1.97E-01
	Rising Head	Test 2	Hvorslev	Bedrock	4.34E-05		1.23E-01	
MW-45BR	Falling Head	Test 1	Hvorslev	Bedrock	4.98E-07	3.92E-07	1.41E-03	1.11E-03
	Rising Head	Test 2	Hvorslev	Bedrock	3.09E-07		8.77E-04	
MW-46BR	Falling Head	Test 1	Hvorslev	Bedrock	1.07E-05	6.10E-06	3.03E-02	1.73E-02
	Rising Head	Test 2	Hvorslev	Bedrock	3.49E-06		9.89E-03	
MW-47BR	Falling Head	Test 1	Hvorslev	Bedrock	3.46E-05	2.09E-05	9.80E-02	5.94E-02
	Rising Head	Test 2	Hvorslev	Bedrock	1.27E-05		3.59E-02	

Prepared by: RLK Checked by: TCK

**Notes:**

ft/day - feet per day  
cm/sec - centimeters per second

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Analytical Parameter	8260D (VOA and MTBE)							8260D (Other VOC)						8270E (PAH)							
	Benzene	Ethylbenzene	Toluene	Xylene			MTBE	2-Butanone (MEK)	2-Hexanone	Acetone	Diisopropyl ether	Styrene	Trichloroethene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	
				m&p-Xylene	o-Xylene	Total Xylene															
Reporting Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
SCDHEC R.61-68 Human Health MCL	5	700	1,000	NE	NE	10,000	40	NE	NE	NE	NE	100	NE	25	NE	NE	NE	NE	NE	10	
Sample ID	Sample Collection Date	Analytical Results																			
MW-35BR	07/15/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.15 j,S1	0.025 j	0.04 j	<0.5	<0.5	<0.05	<0.05
MW-38BR	07/14/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.079 j,S1	0.049 j	<0.8	<0.5	<0.5	<0.05	<0.05
MW-38S	07/14/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.027 j,S1	0.013 j	0.025 j	<0.5	<0.5	<0.05	<0.05
MW-43BR	07/14/2020	<1	<1	<1	<2	<1	<1	0.29 j	<5	<5	<25	<1	<1	<1	0.076 j,S1	<0.8	<0.8	<0.5	<0.5	<0.05	<0.05
MW-43S	07/14/2020	<1	<1	<1	<2	<1	<1	28.8	<5	<5	<25	0.61 j	<1	<1	<1	<0.8	<0.8	<0.5	<0.5	<0.05	<0.05
MW-43TZ	07/14/2020	<1	<1	<1	<2	<1	<1	0.36 j	<5	<5	<25	<1	<1	<1	<1.5	<0.8	<0.8	<0.5	<0.5	<0.05	<0.05
MW-44BR	07/14/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.22 j,S1	0.044 j	0.057 j	<1	<1	<0.1	<0.1
MW-44TZ	07/14/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	<1	<0.8	<0.8	<0.5	<0.5	<0.05	<0.05
MW-45BR	07/15/2020	158	27.5	60.1	26.7	15.9	42.6	<5	<25	<25	<125	<5	14.5	<5	514	54.3	74.4	19.5	17.9	0.32	<0.05
MW-46BR	07/14/2020	5.1	2.6	9.6	5.1	2.9	8.0	<1	<5	<5	<25	<1	4.3	<1	194	77.3	131	6.5	37.5	4.6	0.05
MW-47BR	07/15/2020	226	261	1,390	940	477	1,420	<10	<50	<50	<250	3.1 j	88.4	<10	1,160	160	269	10.3	105	5.0	0.15
LC-SB-03	08/28/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.31 j	0.60 j	1.0	0.42 j	<0.5	0.055	<0.05
LC-SB-05	08/22/2020	<25	31.3	<25	27.1 j	11.6 j	<25	<25	<125	<125	<625	<25	<25	<25	353	101	171	53.3	7.1 j	3.8	<1
LC-SB-09	08/22/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	1.4 j	1.4	2.7	1.2	0.24 j	0.30	0.063
LC-SB-10	08/29/2020	1.3	1.2	0.48 j	1.2 j	0.67 j	<1	<1	<5	<5	<25	<1	<1	<1	55.2	25.8	33.7	25.0	7.1	7.9	1.8 L1
LC-SB-12	08/29/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.12 j,B	0.13 j	0.18 j	0.11 j	<0.5	0.037 j	<0.05
TRIP BLANK	08/27/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA
TRIP BLANK	09/01/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA
QC SAMPLE RESULTS		Analytical Results																			
FB-01_WQ_20200715	07/15/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.035 j	<0.8	<0.8	<0.5	<0.5	<0.05	<0.05
MW-43TZ DUP	07/14/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	0.046 j,S1	0.010 j	<0.8	<0.5	<0.5	<0.05	<0.05
TB-01_WQ_20200715	07/15/2020	<1	<1	<1	<2	<1	<1	<1	<5	<5	<25	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA

Prepared by: BER      Checked by: JDC  
Revised by: LWD

**Notes:**

- Bold** type indicates that the compound was detected above the adjusted method detection limit.
- indicates that the compound was detected greater than the applicable SCDHEC R.61-68 Human Health MCL.
- < - concentration not detected at or above the adjusted reporting limit.
- µg/L - micrograms per liter
- B - Target analyte detected in method blank at or above the reporting limit. Target analyte concentration in sample is less than 10X the concentration in the method blank. Analyte concentration in sample could be due to blank contamination.
- j - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- L1 - Analyte recovery in the laboratory control sample (LCS) was above quality control (QC) limits. Results may be biased high.
- MCL - maximum contaminant level
- MTBE - Methyl-tert-butyl ether
- NA - Not analyzed
- NE - No regulatory standard established at this time. A site-specific target level may be established as part of the risk assessment outlined in Section 5.0 of the RIWP-A.
- PAH - polycyclic aromatic hydrocarbons
- S1 - Data review findings indicate result may be biased, however, data is usable.
- SCDHEC - South Carolina Department of Health and Environmental Control
- SVOC - semi-volatile organic compounds
- VOA - volatile organic analysis
- VOC - volatile organic compounds

**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Analytical Parameter	8270E (PAH)											8270E (Other SVOC)					
	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	2,4-Dimethylphenol	2,4-Dinitrotoluene	2-Methylphenol(o-Cresol)	3&4-Methylphenol(m&p Cresol)	Dibenzofuran	Phenol
Reporting Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SCDHEC R.61-68 Human Health MCL	0.2	10	NE	10	10	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Sample ID	Sample Collection Date	Analytical Results															
MW-35BR	07/15/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-38BR	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-38S	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-43BR	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-43S	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-43TZ	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-44BR	07/14/2020	<0.2	<0.1	<0.4	<0.4	<0.2	<0.3	<0.6	<0.62	<0.1	<0.4	<0.2	<10	<10	<10	<10	<10
MW-44TZ	07/14/2020	<0.1	<10	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-45BR	07/15/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<b>0.14 j</b>	<b>3.9</b>	<0.05	<b>2.1</b>	<b>0.14</b>	<b>29.0</b>	<10	<b>3.7 j</b>	<10	<b>3.2 j</b>
MW-46BR	07/14/2020	<0.1	<0.05	<0.2	<0.2	<b>0.037 j</b>	<0.15	<b>1.8</b>	<b>20.4</b>	<0.05	<b>30.9</b>	<b>2.7</b>	<10	<10	<10	<10	<10
MW-47BR	07/15/2020	<0.1	<b>0.023 j</b>	<0.2	<0.2	<b>0.10</b>	<0.15	<b>1.9</b>	<b>24.5</b>	<0.05	<b>24.5</b>	<b>2.8</b>	<b>13.5</b>	<10	<10	<b>3.3 j</b>	<b>1.8 j</b>
LC-SB-03	08/28/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<b>0.068 j, L1</b>	<b>0.27 j</b>	<0.05	<b>0.42</b>	<b>0.11 L1</b>	<10	<10	<10	<10	<10
LC-SB-05	08/22/2020	<2	<1	<4	<4	<2	<3	<b>2.6 j</b>	<b>25.2</b>	<1	<b>31.7</b>	<b>4.3</b>	<10	<10	<10	<10	<b>19.8</b>
LC-SB-09	08/22/2020	<b>0.039 j</b>	<b>0.032 j</b>	<b>0.016 j</b>	<0.2	<b>0.037 j</b>	<0.15	<b>0.31</b>	<b>0.87</b>	<b>0.013 j</b>	<b>2.1</b>	<b>0.51</b>	<10	<10	<10	<10	<10
LC-SB-10	08/29/2020	<b>1.3 L1</b>	<b>1.3</b>	<b>0.65</b>	<b>0.56</b>	<b>1.5</b>	<b>0.16</b>	<b>9.4 L1</b>	<b>24.7</b>	<b>0.57</b>	<b>33.5</b>	<b>6.9 L1</b>	<10	<10	<10	<10	<b>13.7</b>
LC-SB-12	08/29/2020	<0.1	<b>0.023 j</b>	<b>0.023 j</b>	<0.2	<0.1	<0.15	<b>0.082 j, L1</b>	<b>0.085 j</b>	<b>0.015 j</b>	<b>0.16 j</b>	<b>0.14 L1</b>	<10	<10	<10	<10	<10
TRIP BLANK	08/27/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRIP BLANK	09/01/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
QC SAMPLE RESULTS	Analytical Results																
FB-01_WQ_20200715	07/15/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<10
MW-43TZ DUP	07/14/2020	<0.1	<0.05	<0.2	<0.2	<0.1	<0.15	<0.3	<0.31	<0.05	<0.2	<0.1	<10	<10	<10	<10	<b>1.6 j</b>
TB-01_WQ_20200715	07/15/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Prepared by: BER Checked by: JBC  
Revised by: LWD

**Notes:**  
**Bold** type indicates that the compound was detected above the adjusted method detection limit.  
     - indicates that the compound was detected greater than the applicable SCDHEC R.61-68 Human Health MCL.  
 < - concentration not detected at or above the adjusted reporting limit.  
 µg/L - micrograms per liter  
 B - Target analyte detected in method blank at or above the reporting limit. Target analyte concentration in sample is less than 10X the concentration in the method blank. Analyte concentration in sample could be due to blank contamination.  
 j - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 L1 - Analyte recovery in the laboratory control sample (LCS) was above quality control (QC) limits. Results may be biased high.  
 MCL - maximum contaminant level  
 MTBE - Methyl-tert-butyl ether  
 NA - Not analyzed  
 NE - No regulatory standard established at this time. A site-specific target level may be established as part of the risk assessment outlined in Section 5.0 of the RIWP-A.  
 PAH - polycyclic aromatic hydrocarbons  
 S1 - Data review findings indicate result may be biased, however, data is usable.  
 SCDHEC - South Carolina Department of Health and Environmental Control  
 SVOC - semi-volatile organic compounds  
 VOA - volatile organic analysis  
 VOC - volatile organic compounds

**TABLE 3  
SEDIMENT ANALYTICAL RESULTS SUMMARY  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Location ID		REF1	SW-12
Sample Collection Date		09/09/2020	09/09/2020
Analyte	EPA RSV (µg/kg)	Reporting Units	Analytical Results
1,2,3,4-Tetramethylbenzene	NE	µg/kg	<2.52 0.256 j
1,2,3,5-Tetramethylbenzene	NE	µg/kg	<2.52 0.281 j
1,3-Dimethyl-5-Ethylbenzene	NE	µg/kg	<2.52 0.234 j
1-Methylnaphthalene	4,460	µg/kg	<6.3 2.78 j
2,4-Dimethylphenol	NE	µg/kg	<202 43 j
2,6,10-Trimethyldodecane (1380)	NE	mg/kg	<0.844 0.093 j
2,6,10-Trimethyltridecane (1470)	NE	mg/kg	<0.844 1.07
2-Methylnaphthalene	4,470	µg/kg	20.6 292
2-Methylphenol	NE	µg/kg	<202 40.7 j
4-Methylphenol	NE	µg/kg	<202 90.1
Acenaphthene	4,910	µg/kg	11.4 j 2,000
Acenaphthylene	4,520	µg/kg	37.8 1,180
Acetone	NE	µg/kg	50 26 j
Aniline	NE	µg/kg	47.7 j <80.2
Anthracene	5,940	µg/kg	71.3 4,160
Benz(a)anthracene	8,410	µg/kg	276 7,630
Benzo(a)fluoranthene	NE	µg/kg	68.4 2,060
Benzo(a)pyrene	NE	µg/kg	398 6,230
Benzo(b)fluoranthene	9,790	µg/kg	531 6,040
Benzo(e)pyrene	9,670	µg/kg	407 4,100
Benzo(g,h,i)perylene	10,900	µg/kg	446 4,160
Benzo(j)+(k)fluoranthene	9,810 (k)	µg/kg	438 5,720
Benzothiophene	3,910	µg/kg	<2.52 31.1
Biphenyl	NE	µg/kg	43.6 173
bis(2-Ethylhexyl)phthalate	NE	µg/kg	874 <80.2
C1-Benzo(b)thiophenes	NE	µg/kg	<12.7 20.1
C1-Chrysenes	9,290	µg/kg	163 4,470
C1-Decalins	NE	µg/kg	<12.7 13
C1-Dibenzothiophenes BS	6,720	µg/kg	8.49 j 360
C1-Fluoranthenes/Pyrenes	7,700	µg/kg	174 6,760
C1-Fluorenes	6,110	µg/kg	22.5 1,430
C1-Naphthalenes	4,940	µg/kg	25.6 311
C1-Naphthobenzothiophenes	NE	µg/kg	67.7 396
C1-Phenanthrenes/Anthracenes	6,700	µg/kg	79.4 5,480
C2-Benzo(b)thiophenes	NE	µg/kg	<12.7 50.8
C2-Chrysenes BS	10,100	µg/kg	120 2,360
C2-Decalins	NE	µg/kg	<12.7 26.4
C2-Dibenzothiophenes	7,540	µg/kg	17.5 262
C2-Fluoranthenes/Pyrenes	8,730	µg/kg	203 2,520
C2-Fluorenes	6,860	µg/kg	15.4 942
C2-Naphthalenes	5,100	µg/kg	33.4 1,380
C2-Naphthobenzothiophenes	NE	µg/kg	112 229
C2-Phenanthrenes/Anthr BS	7,460	µg/kg	48.2 3,020
C3-Benzo(b)thiophenes	NE	µg/kg	<12.7 77.6
C3-Chrysenes	11,100	µg/kg	168 1,960
C3-Decalins	NE	µg/kg	<12.7 27.2
C3-Dibenzothiophenes	8,440	µg/kg	21.5 159
C3-Fluoranthenes/Pyrenes	9,490	µg/kg	112 1,120
C3-Fluorenes	7,690	µg/kg	<12.7 437
C3-Naphthalenes	5,810	µg/kg	24.1 1,700
C3-Naphthobenzothiophenes	NE	µg/kg	123 163
C3-Phenanthrenes/Anthracenes	8,290	µg/kg	40.6 1,100
C4-Benzo(b)thiophenes	NE	µg/kg	<12.7 43.5
C4-Chrysenes	12,100	µg/kg	160 700
C4-Decalins	NE	µg/kg	<12.7 37.4
C4-Dibenzothiophenes	9,400	µg/kg	26.9 63.6
C4-Fluoranthenes/Pyrenes	10,700	µg/kg	130 610
C4-Naphthalenes	6,570	µg/kg	18.7 793
C4-Naphthobenzothiophenes	NE	µg/kg	113 97.7
C4-Phenanthrenes/Anthracenes	9,130	µg/kg	34.7 373
Carbazole	NE	µg/kg	40.8 j 188
Chrysene	8,440	µg/kg	514 6,380
cis/trans-Decalin	NE	µg/kg	<6.33 4.83
Dibenz(a,h)+(a,c)anthracene	11,200 (a,h)	µg/kg	100 1,270
Dibenzofuran	NE	µg/kg	13 1,360
Dibenzothiophene	5,950	µg/kg	13.9 508
Di-n-butylphthalate	NE	µg/kg	57.8 j <80.2
DRO (C10-C28)	NE	mg/kg	142 349
Ethyl-Tert-Butyl-Ether	NE	µg/kg	0.647 j <1.82
Fluoranthene	7,070	µg/kg	616 13,500 E
Fluorene	5,380	µg/kg	19.1 2,530
Indeno(1,2,3-cd)pyrene	11,200	µg/kg	385 4,420
Methyl ethyl ketone	NE	µg/kg	<13 4.1 j
Naphthalene	3,850	µg/kg	2.2 j 1.94
Naphthobenzothiophenes	NE	µg/kg	95.8 j 538
n-Docosane (C22)	NE	mg/kg	<0.844 0.222 j

**TABLE 3  
SEDIMENT ANALYTICAL RESULTS SUMMARY  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Location ID		REF1	SW-12
Sample Collection Date		09/09/2020	09/09/2020
Analyte	EPA RSV (µg/kg)	Reporting Units	Analytical Results
n-Dotriacontane (C32)	NE	mg/kg	0.143 j 0.321 j
n-Eicosane (C20)	NE	mg/kg	<0.844 0.126 j
n-Hentriacontane (C31)	NE	mg/kg	1.52 1.6
n-Heptacosane (C27)	NE	mg/kg	0.789 j 0.493
n-Heptadecane (C17)	NE	mg/kg	<0.844 0.338
n-Heptatriacontane (C37)	NE	mg/kg	<0.844 0.357
n-Hexacosane (C26)	NE	mg/kg	0.138 j 0.444
n-Hexadecane (C16)	NE	mg/kg	<0.844 0.817
n-Hexatriacontane (C36)	NE	mg/kg	0.572 j <0.326
n-Nonacosane (C29)	NE	mg/kg	1.16 4.5
n-Nonadecane (C19)	NE	mg/kg	<0.844 0.287 j
n-Octacosane (C28)	NE	mg/kg	<0.844 0.296 j
n-Octadecane (C18)	NE	mg/kg	0.531 j 12.1
Norpristane (1650)	NE	mg/kg	<0.844 1.63
n-Pentacosane (C25)	NE	mg/kg	0.646 j 7.57
n-Pentadecane (C15)	NE	mg/kg	<0.844 0.137 j
n-Pentatriacontane (C35)	NE	mg/kg	0.318 j 0.154 j
n-Tetracosane (C24)	NE	mg/kg	<0.844 0.117 j
n-Tetradecane (C14)	NE	mg/kg	<0.844 0.095 j
n-Triacontane (C30)	NE	mg/kg	0.259 j 0.764
n-Tricosane (C23)	NE	mg/kg	0.17 j 1.16
n-Tritriacontane (C33)	NE	mg/kg	0.43 j 0.273 j
Pentadecane	NE	µg/kg	<6.30 1.38 j
Percent Total Solids	NE	%	81.7 81.6
Perylene	9,680	µg/kg	109 1,980
Phenanthrene	5,960	µg/kg	295 11,400 E
Phytane	NE	mg/kg	0.129 j 4.94
p-Isopropyltoluene	NE	µg/kg	<1.3 0.26 j
Pristane	NE	mg/kg	<0.844 0.761
Pyrene	6,970	µg/kg	522 10,500 E
Retene	NE	µg/kg	13.5 86.6
Styrene	NE	µg/kg	<2.52 0.59 j
Tetradecane (C14)	NE	µg/kg	<0.844 0.691 j
Tetrahydrofuran	NE	µg/kg	12 4.5
Toluene	NE	µg/kg	<2.52 0.551 j
Total Petroleum Hydrocarbons (C9-C44)	NE	mg/kg	530 663
Total Saturated Hydrocarbons	NE	mg/kg	6.81 j 40.7 j
Undecane	NE	µg/kg	<2.52 0.358 j

Prepared by: TCK Checked by: RSB  
Revised by: LWD/JPC

**Notes:**

**Bold** type indicates that the compound was detected above the adjusted method detection limit.

     - indicates that the compound was detected greater than the applicable EPA RSV for Freshwater and Saltwater Sediments.

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

% - percent

< - concentration not detected at or above the adjusted reporting limit.

(C22) - The parenthetical 'C#' indicates the number of carbons associated with the compound. For example, C22 contains 22 carbon atoms.

j - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

RSV - Refinement Screening Values for Freshwater and Saltwater Sediment as defined in Table 2c of the Region 4 Ecological Risk Assessment Supplemental Guidance- March 2018 Update.

**TABLE 4  
WELL GAUGING DETAILS  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Well ID	Date	Top of Casing Elevation	Measured Well Depth	Measured Water Level	Measured Water Level Elevation	NAPL Thickness	Notes
		ft-NAVD 88	ft-btoc	ft-btoc	ft-NAVD 88	ft	
MW-1	7/10/2020	934.31	16.87	7.26	927.05	0	--
MW-1	7/17/2020	934.31	16.87	7.56	926.75	0	--
MW-1	7/17/2020	934.31	16.87	7.28	927.03	0	--
MW-1	8/10/2020	934.31	16.86	7.66	926.65	0	--
MW-1	8/10/2020	934.31	16.86	7.78	926.53	0	--
MW-1	8/24/2020	934.31	16.88	7.32	926.99	0	--
MW-1	8/31/2020	934.31	16.88	7.55	926.76	0	--
MW-1	9/11/2020	934.31	16.88	7.80	926.51	0	--
MW-1	9/18/2020	934.31	16.88	6.92	927.39	0	--
MW-2BR	7/10/2020	934.42	62.85	11.11	923.31	0	--
MW-2BR	7/17/2020	934.42	62.85	11.53	922.89	0	--
MW-2BR	7/17/2020	934.42	62.85	10.95	923.47	0	--
MW-2BR	8/10/2020	934.42	62.54	11.50	922.92	0	--
MW-2BR	8/10/2020	934.42	62.85	11.69	922.73	0	--
MW-2BR	8/24/2020	934.42	62.88	10.87	923.55	0	--
MW-2BR	8/31/2020	934.42	62.57	11.42	923.00	0	--
MW-2BR	9/11/2020	934.42	62.57	11.77	922.65	0	--
MW-2BR	9/18/2020	934.42	62.87	10.76	923.66	0	--
MW-2TZ	7/10/2020	934.90	28.54	10.77	924.13	0	--
MW-2TZ	7/17/2020	934.90	28.55	11.25	923.65	0	--
MW-2TZ	7/17/2020	934.90	28.55	10.55	924.35	0	--
MW-2TZ	8/10/2020	934.90	28.53	11.22	923.68	0	--
MW-2TZ	8/10/2020	934.90	28.53	11.40	923.50	0	--
MW-2TZ	8/24/2020	934.90	28.53	10.57	924.33	0	--
MW-2TZ	8/31/2020	934.90	28.53	11.09	923.81	0	--
MW-2TZ	9/11/2020	934.90	28.53	11.47	923.43	0	--
MW-2TZ	9/18/2020	934.90	28.57	10.44	924.46	0	--
MW-3	7/10/2020	935.53	16.43	10.43	925.10	0	--
MW-3	7/17/2020	935.53	16.58	10.60	924.93	0	--
MW-3	7/17/2020	935.53	16.58	10.25	925.28	0	--
MW-3	8/10/2020	935.53	16.58	10.60	924.93	0	--
MW-3	8/10/2020	935.53	16.58	10.54	924.99	0	--
MW-3	8/24/2020	935.53	16.45	10.32	925.21	0	--
MW-3	8/31/2020	935.53	16.45	10.52	925.01	0	--
MW-3	9/11/2020	935.53	16.45	10.66	924.87	0	--
MW-3	9/18/2020	935.53	16.45	10.39	925.14	0	--
MW-20	7/10/2020	935.71	27.99	10.70	925.01	0	--
MW-20	7/17/2020	935.71	27.99	11.21	924.50	0	--
MW-20	7/17/2020	935.71	27.99	10.52	925.19	0	--
MW-20	8/10/2020	935.71	27.98	11.18	924.53	0	--
MW-20	8/10/2020	935.71	27.98	11.35	924.36	0.01	0.01 on bottom of well (TLM)
MW-20	8/24/2020	935.71	27.98	10.56	925.15	0.01	0.01 on bottom of well (TLM)
MW-20	8/31/2020	935.71	27.98	11.50	924.21	0.01	0.01 on bottom of well (TLM)
MW-20	9/11/2020	935.71	27.98	11.44	924.27	0.01	0.01 on bottom of well (TLM)
MW-20	9/18/2020	935.71	28.01	10.60	925.11	0.01	0.01 on bottom of well (TLM)
MW-21	7/10/2020	934.53	19.49	11.53	923.00	0.02	viscous TLM noted in bottom of well
MW-21	7/17/2020	934.53	19.5	11.67	922.86	0.01	tar-like product on bottom of probe
MW-21	7/17/2020	934.53	19.5	11.29/11.28	923.24/923.25	0.01	0.01 on top of water column
MW-21	8/10/2020	934.53	19.51	11.64	922.89	0.01	0.01 on bottom of well (TLM)
MW-21	8/10/2020	934.53	19.51	11.69	922.84	0.01	0.01 on bottom of well (TLM)
MW-21	8/24/2020	934.53	19.51	11.15	923.38	0.01	0.01 on bottom of well (TLM)
MW-21	8/31/2020	934.53	19.54	11.46	923.07	0.01	0.01 on bottom of well (TLM)
MW-21	9/11/2020	934.53	19.54	11.73	922.80	0.01	0.01 on bottom of well (TLM)
MW-21	9/18/2020	934.53	19.54	10.68	923.85	0.01	0.01 on bottom of well (TLM)
MW-29BR	7/10/2020	933.32	--	--	--	--	inaccessible due to heavy vegetation
MW-29BR	7/17/2020	933.32	89.01	8.94	924.38	0	--
MW-29BR	7/17/2020	933.32	89.01	8.28	925.04	0	--
MW-29BR	8/10/2020	933.32	89.01	8.95	924.37	0	--
MW-29BR	8/10/2020	933.32	89.04	9.17	924.15	0	--
MW-29BR	8/24/2020	933.32	88.87	8.25/8.26	925.07/925.06	0.01	0.01 on top of water column
MW-29BR	8/31/2020	933.32	88.87	8.84	924.48	0	--
MW-29BR	9/11/2020	933.32	88.87	9.19	924.13	0	--
MW-29BR	9/18/2020	933.32	88.87	8.23	925.09	0	--
MW-29S	7/10/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	7/17/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	7/17/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	8/10/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	8/10/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	8/24/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	8/31/2020	932.86	--	--	--	--	inaccessible due to heavy vegetation
MW-29S	9/11/2020	932.86	17.8	8.95	923.91	0	--
MW-29S	9/18/2020	932.86	17.8	7.83	925.03	0	--
MW-29TZ	7/10/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	7/17/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	7/17/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	8/10/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	8/10/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	8/24/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	8/31/2020	932.90	--	--	--	--	inaccessible due to heavy vegetation
MW-29TZ	9/11/2020	932.90	33.86	8.94	923.96	0	--
MW-29TZ	9/18/2020	932.90	33.86	7.83	925.07	0	--
MW-34BR	7/10/2020	937.92	110.81	12.81	925.11	0	--
MW-34BR	7/17/2020	937.92	110.98	13.30	924.62	0	--
MW-34BR	7/17/2020	937.92	111.01	12.95	924.97	0	--
MW-34BR	8/10/2020	937.92	110.98	13.35	924.57	0	--
MW-34BR	8/10/2020	937.92	111	13.61	924.31	0	--
MW-34BR	8/24/2020	937.92	111	12.86	925.06	0	--
MW-34BR	8/31/2020	937.92	111.02	13.30/13.31	924.62/924.61	0.01	0.01 on top of water column
MW-34BR	9/11/2020	937.92	111.02	13.68	924.24	0	--
MW-34BR	9/18/2020	937.92	111.02	12.61	925.31	0	--
MW-34S	7/10/2020	937.53	28.6	10.15	927.38	0	--
MW-34S	7/17/2020	937.53	28.6	10.45	927.08	0	--
MW-34S	7/17/2020	937.53	28.6	10.42	927.11	0	--
MW-34S	8/10/2020	937.53	28.59	10.71	926.82	0	--
MW-34S	8/10/2020	937.53	28.58	10.93	926.60	0	--

**TABLE 4  
WELL GAUGING DETAILS  
QUARTERLY STATUS REPORT - THIRD QUARTER 2020  
FORMER BRAMLETTE MGP  
DUKE ENERGY CAROLINAS, LLC, GREENVILLE, SC**

Well ID	Date	Top of Casing Elevation	Measured Well Depth	Measured Water Level	Measured Water Level Elevation	NAPL Thickness	Notes
		ft-NAVD 88	ft-btoc	ft-btoc	ft-NAVD 88	ft	
MW-34S	8/24/2020	937.53	28.59	10.61/10.62	926.92/926.91	0.01	0.01 on top of water column
MW-34S	8/31/2020	937.53	28.59	10.78/10.79	926.75/926.74	0.01	0.01 on top of water column
MW-34S	9/11/2020	937.53	28.59	11.08	926.45	0	--
MW-34S	9/18/2020	937.53	28.31	10.29	927.24	0	--
MW-34TZ	7/10/2020	937.91	53.52	11.55	926.36	0	--
MW-34TZ	7/17/2020	937.91	53.52	11.88	926.03	0	--
MW-34TZ	7/17/2020	937.91	53.57	11.62	926.29	0	--
MW-34TZ	8/10/2020	937.91	53.56	12.04	925.87	0	--
MW-34TZ	8/10/2020	937.91	53.25	12.18	925.73	0	--
MW-34TZ	8/24/2020	937.91	53.27	11.66	926.25	0	--
MW-34TZ	8/31/2020	937.91	53.27	11.94/11.95	925.97/925.96	0.01	0.01 on top of water column
MW-34TZ	9/11/2020	937.91	53.27	12.23	925.68	0	--
MW-34TZ	9/18/2020	937.91	53.59	11.09	926.82	0	--
MW-36BR	7/10/2020	940.04	71.5	8.79	931.25	0	--
MW-36BR	7/17/2020	940.04	71.5	9.04	931.00	0	--
MW-36BR	7/17/2020	940.04	71.5	8.83	931.21	0	--
MW-36BR	8/10/2020	940.04	71.5	9.06	930.98	0	--
MW-36BR	8/10/2020	940.04	71.33	9.20	930.84	0	--
MW-36BR	8/24/2020	940.04	71.33	8.77	931.27	0	--
MW-36BR	8/31/2020	940.04	71.36	8.97	931.07	0	--
MW-36BR	9/11/2020	940.04	71.36	9.21	930.83	0	--
MW-36BR	9/18/2020	940.04	71.36	8.41	931.63	0	--
MW-36S	7/10/2020	940.49	23.83	9.08	931.41	0	--
MW-36S	7/17/2020	940.49	23.83	9.34	931.15	0	--
MW-36S	7/17/2020	940.49	23.83	9.11	931.38	0	--
MW-36S	8/10/2020	940.49	23.51	9.39	931.10	0	--
MW-36S	8/10/2020	940.49	23.82	9.51	930.98	0	--
MW-36S	8/24/2020	940.49	23.84	9.07	931.42	0	--
MW-36S	8/31/2020	940.49	23.83	9.22	931.27	0	--
MW-36S	9/11/2020	940.49	23.83	9.53	930.96	0	--
MW-36S	9/18/2020	940.49	23.83	8.65	931.84	0	--
MW-36TZ	7/10/2020	940.07	48.74	9.00	931.07	0	--
MW-36TZ	7/17/2020	940.07	48.74	9.16	930.91	0	--
MW-36TZ	7/17/2020	940.07	48.74	8.92	931.15	0	--
MW-36TZ	8/10/2020	940.07	48.73	9.19	930.88	0	--
MW-36TZ	8/10/2020	940.07	48.74	9.33	930.74	0	--
MW-36TZ	8/24/2020	940.07	48.74	8.88	931.19	0	--
MW-36TZ	8/31/2020	940.07	48.74	9.03	931.04	0	--
MW-36TZ	9/11/2020	940.07	48.75	9.35	930.72	0	--
MW-36TZ	9/18/2020	940.07	48.75	8.43	931.64	0	--
MW-3BR	7/10/2020	935.87	67.02	11.22	924.65	0	--
MW-3BR	7/17/2020	935.87	67.01	11.77	924.10	0	--
MW-3BR	7/17/2020	935.87	66.73	11.04	924.83	0	--
MW-3BR	8/10/2020	935.87	67.01	11.70	924.17	0	--
MW-3BR	8/10/2020	935.87	67.01	11.88	923.99	0	--
MW-3BR	8/24/2020	935.87	67.01	11.08	924.79	0	--
MW-3BR	8/31/2020	935.87	67.03	11.57	924.30	0	--
MW-3BR	9/11/2020	935.87	67.03	11.97	923.90	0	--
MW-3BR	9/18/2020	935.87	67.05	11.05	924.82	0	--
MW-3BRL	7/10/2020	936.49	107.12	11.96	924.53	0	--
MW-3BRL	7/17/2020	936.49	107.12	12.52	923.97	0	--
MW-3BRL	7/17/2020	936.49	107.15	11.78	924.71	0	--
MW-3BRL	8/10/2020	936.49	107.13	12.45	924.04	0	--
MW-3BRL	8/10/2020	936.49	107.13	12.65	923.84	0	--
MW-3BRL	8/24/2020	936.49	107.13	11.81	924.68	0	--
MW-3BRL	8/31/2020	936.49	107.16	12.32	924.17	0	--
MW-3BRL	9/11/2020	936.49	107.16	12.76	923.73	0	--
MW-3BRL	9/18/2020	936.49	106.99	11.75	924.74	0	--
MW-45BR	7/10/2020	936.14	93.61	11.83	924.31	0	--
MW-45BR	7/17/2020	936.14	93.6	15.30	920.84	0	--
MW-45BR	7/17/2020	936.14	93.63	11.70	924.44	0	--
MW-45BR	8/10/2020	936.14	93.31	12.09	924.05	0	--
MW-45BR	8/10/2020	936.14	93.31	12.34	923.80	0	--
MW-45BR	8/24/2020	936.14	93.31	11.62	924.52	0	--
MW-45BR	8/31/2020	936.14	93.64	11.97	924.17	0	--
MW-45BR	9/11/2020	936.14	93.64	11.45	924.69	0	--
MW-45BR	9/18/2020	936.14	93.64	11.74	924.40	0	--
MW-46BR	7/10/2020	934.01	184.52	5.37	928.64	0	--
MW-46BR	7/17/2020	934.01	182.66	5.65	928.36	0	--
MW-46BR	7/17/2020	934.01	182.66	5.51	928.50	0	--
MW-46BR	8/10/2020	934.01	182.69	5.67	928.34	0	--
MW-46BR	8/10/2020	934.01	182.69	5.99	928.02	0	--
MW-46BR	8/24/2020	934.01	182.69	5.57	928.44	0	--
MW-46BR	8/31/2020	934.01	182.69	5.75	928.26	0	--
MW-46BR	9/11/2020	934.01	182.69	6.07	927.94	0	--
MW-46BR	9/18/2020	934.01	182.72	5.51	928.50	0	--
MW-47BR	7/10/2020	935.96	123.29	12.52	923.44	0	--
MW-47BR	7/17/2020	935.96	123.29	13.22	922.74	0	--
MW-47BR	7/17/2020	935.96	123.29	12.64	923.32	0	--
MW-47BR	8/10/2020	935.96	123.29	13.12	922.84	0	--
MW-47BR	8/10/2020	935.96	123.32	13.43	922.53	0	--
MW-47BR	8/24/2020	935.96	123.35	12.68	923.28	0	--
MW-47BR	8/31/2020	935.96	123.35	13.15	922.81	0	--
MW-47BR	9/11/2020	935.96	123.35	13.61	922.35	0	--
MW-47BR	9/18/2020	935.96	123.35	12.46	923.50	0	--

Prepared by: TCK Checked by: LWD  
Revised by: LWD

**Notes:**  
 -- - not applicable  
 btoc - below top of casing  
 NAPL - non-aqueous phase liquid  
 ft - feet  
 TLM - tar-like material

## **ATTACHMENT A**

# **ANALYTICAL LABORATORY REPORTS**



September 03, 2020

Program Manager  
Duke Energy  
13339 Hagers Ferry Road  
Bldg. 7405 MG30A2  
Huntersville, NC 28078

RE: Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring  
kevin.herring@pacelabs.com  
1(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Tom King  
Amber Lipsky  
Program Manager, Duke Energy  
Mike Mastbaum  
Todd Plating, Synterra  
Rick Powell  
B. Russo  
Heather Smith



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492867001	LC-SB-05_WG_20200822	Water	08/22/20 16:10	08/27/20 11:45
92492867002	LC-SB-09_WG_20200822	Water	08/22/20 15:00	08/27/20 11:45
92492867003	TRIP BLANK	Water	08/27/20 00:00	08/27/20 11:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492867001	LC-SB-05_WG_20200822	EPA 8270E	PKS	74	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92492867002	LC-SB-09_WG_20200822	EPA 8270E	PKS	74	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92492867003	TRIP BLANK	EPA 8260D	SAS	62	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92492867001</b>	<b>LC-SB-05_WG_20200822</b>					
EPA 8270E	Acenaphthene	164	ug/L	100	08/30/20 15:26	
EPA 8270E	Anthracene	21.0	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Benzo(a)anthracene	4.5J	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Benzo(a)pyrene	3.1J	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Benzo(b)fluoranthene	2.1J	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Chrysene	2.7J	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Dibenzofuran	19.8	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Fluoranthene	16.7	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Fluorene	85.9	ug/L	10.0	08/28/20 17:27	
EPA 8270E	1-Methylnaphthalene	326	ug/L	100	08/30/20 15:26	
EPA 8270E	2-Methylnaphthalene	550	ug/L	100	08/30/20 15:26	
EPA 8270E	Naphthalene	1170	ug/L	100	08/30/20 15:26	
EPA 8270E	Phenanthrene	141	ug/L	10.0	08/28/20 17:27	
EPA 8270E	Pyrene	29.7	ug/L	10.0	08/28/20 17:27	
EPA 8270E by SIM	Acenaphthene	53.3	ug/L	10.0	09/01/20 17:29	
EPA 8270E by SIM	Acenaphthylene	7.1J	ug/L	10.0	09/01/20 17:29	
EPA 8270E by SIM	Anthracene	3.8	ug/L	1.0	09/01/20 17:29	
EPA 8270E by SIM	Fluoranthene	2.6J	ug/L	6.0	09/01/20 17:29	
EPA 8270E by SIM	Fluorene	25.2	ug/L	6.2	09/01/20 17:29	
EPA 8270E by SIM	1-Methylnaphthalene	101	ug/L	16.0	09/01/20 17:29	
EPA 8270E by SIM	2-Methylnaphthalene	171	ug/L	16.0	09/01/20 17:29	
EPA 8270E by SIM	Naphthalene	353	ug/L	30.0	09/01/20 17:29	
EPA 8270E by SIM	Phenanthrene	31.7	ug/L	4.0	09/01/20 17:29	
EPA 8270E by SIM	Pyrene	4.3	ug/L	2.0	09/01/20 17:29	
EPA 8260D	Ethylbenzene	31.3	ug/L	25.0	09/02/20 04:56	
EPA 8260D	Naphthalene	2930	ug/L	25.0	09/02/20 04:56	
EPA 8260D	m&p-Xylene	27.1J	ug/L	50.0	09/02/20 04:56	
EPA 8260D	o-Xylene	11.6J	ug/L	25.0	09/02/20 04:56	
<b>92492867002</b>	<b>LC-SB-09_WG_20200822</b>					
EPA 8270E	Acenaphthene	1.6J	ug/L	10.0	08/28/20 17:52	
EPA 8270E	1-Methylnaphthalene	2.3J	ug/L	10.0	08/28/20 17:52	
EPA 8270E	2-Methylnaphthalene	4.5J	ug/L	10.0	08/28/20 17:52	
EPA 8270E	Naphthalene	2.7J	ug/L	10.0	08/28/20 17:52	
EPA 8270E	Phenanthrene	3.5J	ug/L	10.0	08/28/20 17:52	
EPA 8270E by SIM	Acenaphthene	1.2	ug/L	0.50	08/31/20 20:37	
EPA 8270E by SIM	Acenaphthylene	0.24J	ug/L	0.50	08/31/20 20:37	
EPA 8270E by SIM	Anthracene	0.30	ug/L	0.050	08/31/20 20:37	
EPA 8270E by SIM	Benzo(a)anthracene	0.063	ug/L	0.050	08/31/20 20:37	
EPA 8270E by SIM	Benzo(a)pyrene	0.039J	ug/L	0.10	08/31/20 20:37	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.032J	ug/L	0.050	08/31/20 20:37	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.016J	ug/L	0.20	08/31/20 20:37	
EPA 8270E by SIM	Chrysene	0.037J	ug/L	0.10	08/31/20 20:37	
EPA 8270E by SIM	Fluoranthene	0.31	ug/L	0.30	08/31/20 20:37	
EPA 8270E by SIM	Fluorene	0.87	ug/L	0.31	08/31/20 20:37	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.013J	ug/L	0.050	08/31/20 20:37	
EPA 8270E by SIM	1-Methylnaphthalene	1.4	ug/L	0.80	08/31/20 20:37	
EPA 8270E by SIM	2-Methylnaphthalene	2.7	ug/L	0.80	08/31/20 20:37	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92492867002</b>	<b>LC-SB-09_WG_20200822</b>					
EPA 8270E by SIM	Naphthalene	1.4J	ug/L	1.5	08/31/20 20:37	
EPA 8270E by SIM	Phenanthrene	2.1	ug/L	0.20	08/31/20 20:37	
EPA 8270E by SIM	Pyrene	0.51	ug/L	0.10	08/31/20 20:37	
EPA 8260D	Naphthalene	3.4	ug/L	1.0	09/02/20 03:43	

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

---

**Method:** EPA 8270E  
**Description:** 8270E RVE  
**Client:** Duke Energy  
**Date:** September 03, 2020

### General Information:

2 samples were analyzed for EPA 8270E by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 563004

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 2985515)
  - 2,2'-Oxybis(1-chloropropane)
  - 2-Nitroaniline
- LC-SB-05\_WG\_20200822 (Lab ID: 92492867001)
  - 2,2'-Oxybis(1-chloropropane)
  - 2-Nitroaniline
- LC-SB-09\_WG\_20200822 (Lab ID: 92492867002)
  - 2,2'-Oxybis(1-chloropropane)
  - 2-Nitroaniline
- LCS (Lab ID: 2985516)
  - 2,2'-Oxybis(1-chloropropane)
  - 2-Nitroaniline

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

---

**Method:** EPA 8270E

**Description:** 8270E RVE

**Client:** Duke Energy

**Date:** September 03, 2020

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 563004

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MS (Lab ID: 2985517)
  - Nitrobenzene-d5 (S)
- MSD (Lab ID: 2985518)
  - Nitrobenzene-d5 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

---

**Method:** EPA 8270E by SIM  
**Description:** 8270E Low Volume PAH SIM  
**Client:** Duke Energy  
**Date:** September 03, 2020

### General Information:

2 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 563110

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- LC-SB-05\_WG\_20200822 (Lab ID: 92492867001)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

---

**Method:** EPA 8270E by SIM

**Description:** 8270E Low Volume PAH SIM

**Client:** Duke Energy

**Date:** September 03, 2020

Analyte Comments:

QC Batch: 563110

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- LC-SB-05\_WG\_20200822 (Lab ID: 92492867001)
  - Nitrobenzene-d5 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** September 03, 2020

### General Information:

3 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 563324

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- BLANK (Lab ID: 2986877)
  - Bromoform
- LCS (Lab ID: 2986878)
  - Bromoform
- MS (Lab ID: 2986879)
  - Hexachloro-1,3-butadiene
- MSD (Lab ID: 2986880)
  - Hexachloro-1,3-butadiene
- TRIP BLANK (Lab ID: 92492867003)
  - Bromoform

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** September 03, 2020

QC Batch: 563324

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92493107001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2986880)
  - Hexachloro-1,3-butadiene

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Sample: LC-SB-05\_WG\_20200822 Lab ID: 92492867001 Collected: 08/22/20 16:10 Received: 08/27/20 11:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Acenaphthene	164	ug/L	100	14.2	10	08/28/20 12:26	08/30/20 15:26	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	208-96-8	
Aniline	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	62-53-3	
Anthracene	21.0	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	120-12-7	
Benzo(a)anthracene	4.5J	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	56-55-3	
Benzo(a)pyrene	3.1J	ug/L	10.0	1.8	1	08/28/20 12:26	08/28/20 17:27	50-32-8	
Benzo(b)fluoranthene	2.1J	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	207-08-9	
Benzoic Acid	ND	ug/L	50.0	19.5	1	08/28/20 12:26	08/28/20 17:27	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	08/28/20 12:26	08/28/20 17:27	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:27	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	08/28/20 12:26	08/28/20 17:27	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	08/28/20 12:26	08/28/20 17:27	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	7005-72-3	
Chrysene	2.7J	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	53-70-3	
Dibenzofuran	19.8	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	08/28/20 12:26	08/28/20 17:27	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	08/28/20 12:26	08/28/20 17:27	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	08/28/20 12:26	08/28/20 17:27	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	08/28/20 12:26	08/28/20 17:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	08/28/20 12:26	08/28/20 17:27	117-81-7	
Fluoranthene	16.7	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	206-44-0	
Fluorene	85.9	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	08/28/20 12:26	08/28/20 17:27	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	193-39-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

**Sample:** LC-SB-05\_WG\_20200822    **Lab ID:** 92492867001    Collected: 08/22/20 16:10    Received: 08/27/20 11:45    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Isophorone	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	78-59-1	
1-Methylnaphthalene	<b>326</b>	ug/L	100	14.0	10	08/28/20 12:26	08/30/20 15:26	90-12-0	
2-Methylnaphthalene	<b>550</b>	ug/L	100	14.1	10	08/28/20 12:26	08/30/20 15:26	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:27	15831-10-4	
Naphthalene	<b>1170</b>	ug/L	100	16.4	10	08/28/20 12:26	08/30/20 15:26	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	08/28/20 12:26	08/28/20 17:27	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:27	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	08/28/20 12:26	08/28/20 17:27	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:27	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	08/28/20 12:26	08/28/20 17:27	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	08/28/20 12:26	08/28/20 17:27	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:27	108-60-1	v1
Pentachlorophenol	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:27	87-86-5	
Phenanthrene	<b>141</b>	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	85-01-8	
Phenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	108-95-2	
Pyrene	<b>29.7</b>	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:27	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:27	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	79	%	13-130		1	08/28/20 12:26	08/28/20 17:27	4165-60-0	
2-Fluorobiphenyl (S)	66	%	13-130		1	08/28/20 12:26	08/28/20 17:27	321-60-8	
Terphenyl-d14 (S)	108	%	25-130		1	08/28/20 12:26	08/28/20 17:27	1718-51-0	
Phenol-d6 (S)	42	%	10-130		1	08/28/20 12:26	08/28/20 17:27	13127-88-3	
2-Fluorophenol (S)	54	%	10-130		1	08/28/20 12:26	08/28/20 17:27	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-137		1	08/28/20 12:26	08/28/20 17:27	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>53.3</b>	ug/L	10.0	0.17	20	08/29/20 10:26	09/01/20 17:29	83-32-9	
Acenaphthylene	<b>7.1J</b>	ug/L	10.0	0.36	20	08/29/20 10:26	09/01/20 17:29	208-96-8	
Anthracene	<b>3.8</b>	ug/L	1.0	0.27	20	08/29/20 10:26	09/01/20 17:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.0	0.93	20	08/29/20 10:26	09/01/20 17:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	2.0	0.18	20	08/29/20 10:26	09/01/20 17:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	0.33	20	08/29/20 10:26	09/01/20 17:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	4.0	0.25	20	08/29/20 10:26	09/01/20 17:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	4.0	0.28	20	08/29/20 10:26	09/01/20 17:29	207-08-9	
Chrysene	ND	ug/L	2.0	0.64	20	08/29/20 10:26	09/01/20 17:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	3.0	0.22	20	08/29/20 10:26	09/01/20 17:29	53-70-3	
Fluoranthene	<b>2.6J</b>	ug/L	6.0	0.31	20	08/29/20 10:26	09/01/20 17:29	206-44-0	
Fluorene	<b>25.2</b>	ug/L	6.2	0.24	20	08/29/20 10:26	09/01/20 17:29	86-73-7	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Sample: LC-SB-05\_WG\_20200822 Lab ID: 92492867001 Collected: 08/22/20 16:10 Received: 08/27/20 11:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.22	20	08/29/20 10:26	09/01/20 17:29	193-39-5	
1-Methylnaphthalene	101	ug/L	16.0	0.15	20	08/29/20 10:26	09/01/20 17:29	90-12-0	
2-Methylnaphthalene	171	ug/L	16.0	0.46	20	08/29/20 10:26	09/01/20 17:29	91-57-6	
Naphthalene	353	ug/L	30.0	0.31	20	08/29/20 10:26	09/01/20 17:29	91-20-3	
Phenanthrene	31.7	ug/L	4.0	0.60	20	08/29/20 10:26	09/01/20 17:29	85-01-8	
Pyrene	4.3	ug/L	2.0	1.0	20	08/29/20 10:26	09/01/20 17:29	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	0	%	57-164		20	08/29/20 10:26	09/01/20 17:29	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	45-150		20	08/29/20 10:26	09/01/20 17:29	321-60-8	S4
Terphenyl-d14 (S)	0	%	38-153		20	08/29/20 10:26	09/01/20 17:29	1718-51-0	S4
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	625	154	25		09/02/20 04:56	67-64-1	
Benzene	ND	ug/L	25.0	3.8	25		09/02/20 04:56	71-43-2	
Bromobenzene	ND	ug/L	25.0	5.5	25		09/02/20 04:56	108-86-1	
Bromochloromethane	ND	ug/L	25.0	8.6	25		09/02/20 04:56	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	6.4	25		09/02/20 04:56	75-27-4	
Bromoform	ND	ug/L	25.0	15.4	25		09/02/20 04:56	75-25-2	
Bromomethane	ND	ug/L	50.0	15.5	25		09/02/20 04:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	83.2	25		09/02/20 04:56	78-93-3	
Carbon tetrachloride	ND	ug/L	25.0	5.6	25		09/02/20 04:56	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5.8	25		09/02/20 04:56	108-90-7	
Chloroethane	ND	ug/L	25.0	12.2	25		09/02/20 04:56	75-00-3	
Chloroform	ND	ug/L	125	58.5	25		09/02/20 04:56	67-66-3	
Chloromethane	ND	ug/L	25.0	9.7	25		09/02/20 04:56	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	5.1	25		09/02/20 04:56	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	5.1	25		09/02/20 04:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	6.4	25		09/02/20 04:56	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	10.3	25		09/02/20 04:56	124-48-1	
Dibromomethane	ND	ug/L	25.0	11.5	25		09/02/20 04:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	7.3	25		09/02/20 04:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5.4	25		09/02/20 04:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	6.4	25		09/02/20 04:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5.6	25		09/02/20 04:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	6.7	25		09/02/20 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	8.4	25		09/02/20 04:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	6.1	25		09/02/20 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	7.3	25		09/02/20 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	6.4	25		09/02/20 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	4.7	25		09/02/20 04:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	4.0	25		09/02/20 04:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	25.0	6.8	25		09/02/20 04:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	5.3	25		09/02/20 04:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	25.0	7.4	25		09/02/20 04:56	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

**Sample:** LC-SB-05\_WG\_20200822    **Lab ID:** 92492867001    Collected: 08/22/20 16:10    Received: 08/27/20 11:45    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
trans-1,3-Dichloropropene	ND	ug/L	25.0	7.7	25		09/02/20 04:56	10061-02-6	
Diisopropyl ether	ND	ug/L	25.0	5.4	25		09/02/20 04:56	108-20-3	
Ethylbenzene	<b>31.3</b>	ug/L	25.0	6.4	25		09/02/20 04:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	11.0	25		09/02/20 04:56	87-68-3	
2-Hexanone	ND	ug/L	125	14.2	25		09/02/20 04:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	25.0	5.3	25		09/02/20 04:56	99-87-6	
Methylene Chloride	ND	ug/L	125	92.2	25		09/02/20 04:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	113	25		09/02/20 04:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	25.0	6.9	25		09/02/20 04:56	1634-04-4	
Naphthalene	<b>2930</b>	ug/L	25.0	8.8	25		09/02/20 04:56	91-20-3	
Styrene	ND	ug/L	25.0	6.7	25		09/02/20 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	8.5	25		09/02/20 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5.6	25		09/02/20 04:56	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	4.0	25		09/02/20 04:56	127-18-4	
Toluene	ND	ug/L	25.0	6.1	25		09/02/20 04:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	8.6	25		09/02/20 04:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5.4	25		09/02/20 04:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	4.4	25		09/02/20 04:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5.9	25		09/02/20 04:56	79-00-5	
Trichloroethene	ND	ug/L	25.0	5.5	25		09/02/20 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	7.8	25		09/02/20 04:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	8.7	25		09/02/20 04:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	36.2	25		09/02/20 04:56	108-05-4	
Vinyl chloride	ND	ug/L	25.0	6.0	25		09/02/20 04:56	75-01-4	
Xylene (Total)	ND	ug/L	25.0	15.8	25		09/02/20 04:56	1330-20-7	
m&p-Xylene	<b>27.1J</b>	ug/L	50.0	10.2	25		09/02/20 04:56	179601-23-1	
o-Xylene	<b>11.6J</b>	ug/L	25.0	5.5	25		09/02/20 04:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		25		09/02/20 04:56	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		25		09/02/20 04:56	17060-07-0	
Toluene-d8 (S)	107	%	70-130		25		09/02/20 04:56	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Sample Project No.: 92492867

Sample: LC-SB-09\_WG\_20200822 Lab ID: 92492867002 Collected: 08/22/20 15:00 Received: 08/27/20 11:45 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Acenaphthene	1.6J	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	208-96-8	
Aniline	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	62-53-3	
Anthracene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.8	1	08/28/20 12:26	08/28/20 17:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	207-08-9	
Benzoic Acid	ND	ug/L	50.0	19.5	1	08/28/20 12:26	08/28/20 17:52	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	08/28/20 12:26	08/28/20 17:52	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:52	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	08/28/20 12:26	08/28/20 17:52	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	08/28/20 12:26	08/28/20 17:52	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:52	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	7005-72-3	
Chrysene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	08/28/20 12:26	08/28/20 17:52	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	08/28/20 12:26	08/28/20 17:52	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	08/28/20 12:26	08/28/20 17:52	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	08/28/20 12:26	08/28/20 17:52	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	08/28/20 12:26	08/28/20 17:52	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	206-44-0	
Fluorene	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	08/28/20 12:26	08/28/20 17:52	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	193-39-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Sample Project No.: 92492867

**Sample:** LC-SB-09\_WG\_20200822    **Lab ID:** 92492867002    Collected: 08/22/20 15:00    Received: 08/27/20 11:45    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Isophorone	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	78-59-1	
1-Methylnaphthalene	<b>2.3J</b>	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	90-12-0	
2-Methylnaphthalene	<b>4.5J</b>	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	08/28/20 12:26	08/28/20 17:52	15831-10-4	
Naphthalene	<b>2.7J</b>	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	08/28/20 12:26	08/28/20 17:52	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:52	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	08/28/20 12:26	08/28/20 17:52	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	08/28/20 12:26	08/28/20 17:52	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	08/28/20 12:26	08/28/20 17:52	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	08/28/20 12:26	08/28/20 17:52	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	08/28/20 12:26	08/28/20 17:52	108-60-1	v1
Pentachlorophenol	ND	ug/L	20.0	2.8	1	08/28/20 12:26	08/28/20 17:52	87-86-5	
Phenanthrene	<b>3.5J</b>	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	85-01-8	
Phenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	108-95-2	
Pyrene	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	08/28/20 12:26	08/28/20 17:52	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	08/28/20 12:26	08/28/20 17:52	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	08/28/20 12:26	08/28/20 17:52	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	79	%	13-130		1	08/28/20 12:26	08/28/20 17:52	4165-60-0	
2-Fluorobiphenyl (S)	70	%	13-130		1	08/28/20 12:26	08/28/20 17:52	321-60-8	
Terphenyl-d14 (S)	100	%	25-130		1	08/28/20 12:26	08/28/20 17:52	1718-51-0	
Phenol-d6 (S)	42	%	10-130		1	08/28/20 12:26	08/28/20 17:52	13127-88-3	
2-Fluorophenol (S)	55	%	10-130		1	08/28/20 12:26	08/28/20 17:52	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-137		1	08/28/20 12:26	08/28/20 17:52	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>1.2</b>	ug/L	0.50	0.0084	1	08/29/20 10:26	08/31/20 20:37	83-32-9	
Acenaphthylene	<b>0.24J</b>	ug/L	0.50	0.018	1	08/29/20 10:26	08/31/20 20:37	208-96-8	
Anthracene	<b>0.30</b>	ug/L	0.050	0.014	1	08/29/20 10:26	08/31/20 20:37	120-12-7	
Benzo(a)anthracene	<b>0.063</b>	ug/L	0.050	0.046	1	08/29/20 10:26	08/31/20 20:37	56-55-3	
Benzo(a)pyrene	<b>0.039J</b>	ug/L	0.10	0.0090	1	08/29/20 10:26	08/31/20 20:37	50-32-8	
Benzo(b)fluoranthene	<b>0.032J</b>	ug/L	0.050	0.017	1	08/29/20 10:26	08/31/20 20:37	205-99-2	
Benzo(g,h,i)perylene	<b>0.016J</b>	ug/L	0.20	0.013	1	08/29/20 10:26	08/31/20 20:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	08/29/20 10:26	08/31/20 20:37	207-08-9	
Chrysene	<b>0.037J</b>	ug/L	0.10	0.032	1	08/29/20 10:26	08/31/20 20:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	08/29/20 10:26	08/31/20 20:37	53-70-3	
Fluoranthene	<b>0.31</b>	ug/L	0.30	0.015	1	08/29/20 10:26	08/31/20 20:37	206-44-0	
Fluorene	<b>0.87</b>	ug/L	0.31	0.012	1	08/29/20 10:26	08/31/20 20:37	86-73-7	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

**Sample:** LC-SB-09\_WG\_20200822    **Lab ID:** 92492867002    Collected: 08/22/20 15:00    Received: 08/27/20 11:45    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM					Preparation Method: EPA 3511				
Pace Analytical Services - Charlotte									
Indeno(1,2,3-cd)pyrene	0.013J	ug/L	0.050	0.011	1	08/29/20 10:26	08/31/20 20:37	193-39-5	
1-Methylnaphthalene	1.4	ug/L	0.80	0.0074	1	08/29/20 10:26	08/31/20 20:37	90-12-0	
2-Methylnaphthalene	2.7	ug/L	0.80	0.023	1	08/29/20 10:26	08/31/20 20:37	91-57-6	
Naphthalene	1.4J	ug/L	1.5	0.015	1	08/29/20 10:26	08/31/20 20:37	91-20-3	
Phenanthrene	2.1	ug/L	0.20	0.030	1	08/29/20 10:26	08/31/20 20:37	85-01-8	
Pyrene	0.51	ug/L	0.10	0.052	1	08/29/20 10:26	08/31/20 20:37	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	71	%	57-164		1	08/29/20 10:26	08/31/20 20:37	4165-60-0	
2-Fluorobiphenyl (S)	54	%	45-150		1	08/29/20 10:26	08/31/20 20:37	321-60-8	
Terphenyl-d14 (S)	62	%	38-153		1	08/29/20 10:26	08/31/20 20:37	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D					Pace Analytical Services - Charlotte				
Acetone	ND	ug/L	25.0	6.2	1		09/02/20 03:43	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		09/02/20 03:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		09/02/20 03:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		09/02/20 03:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		09/02/20 03:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		09/02/20 03:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		09/02/20 03:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		09/02/20 03:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		09/02/20 03:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/02/20 03:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		09/02/20 03:43	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		09/02/20 03:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		09/02/20 03:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/02/20 03:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/02/20 03:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		09/02/20 03:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		09/02/20 03:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		09/02/20 03:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		09/02/20 03:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		09/02/20 03:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		09/02/20 03:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		09/02/20 03:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		09/02/20 03:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		09/02/20 03:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		09/02/20 03:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		09/02/20 03:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		09/02/20 03:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		09/02/20 03:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		09/02/20 03:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/02/20 03:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		09/02/20 03:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		09/02/20 03:43	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

**Sample:** LC-SB-09\_WG\_20200822    **Lab ID:** 92492867002    Collected: 08/22/20 15:00    Received: 08/27/20 11:45    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		09/02/20 03:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		09/02/20 03:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		09/02/20 03:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		09/02/20 03:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		09/02/20 03:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		09/02/20 03:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		09/02/20 03:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		09/02/20 03:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		09/02/20 03:43	1634-04-4	
Naphthalene	<b>3.4</b>	ug/L	1.0	0.35	1		09/02/20 03:43	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		09/02/20 03:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		09/02/20 03:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		09/02/20 03:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		09/02/20 03:43	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		09/02/20 03:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		09/02/20 03:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		09/02/20 03:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		09/02/20 03:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		09/02/20 03:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		09/02/20 03:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		09/02/20 03:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		09/02/20 03:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		09/02/20 03:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		09/02/20 03:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		09/02/20 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		09/02/20 03:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		09/02/20 03:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/02/20 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		09/02/20 03:43	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		09/02/20 03:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

**Sample: TRIP BLANK**      **Lab ID: 92492867003**      Collected: 08/27/20 00:00      Received: 08/27/20 11:45      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		08/30/20 14:10	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		08/30/20 14:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		08/30/20 14:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		08/30/20 14:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		08/30/20 14:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		08/30/20 14:10	75-25-2	IK
Bromomethane	ND	ug/L	2.0	0.62	1		08/30/20 14:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		08/30/20 14:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		08/30/20 14:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		08/30/20 14:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		08/30/20 14:10	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		08/30/20 14:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		08/30/20 14:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		08/30/20 14:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		08/30/20 14:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		08/30/20 14:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		08/30/20 14:10	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		08/30/20 14:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		08/30/20 14:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		08/30/20 14:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		08/30/20 14:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		08/30/20 14:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		08/30/20 14:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		08/30/20 14:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/30/20 14:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		08/30/20 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		08/30/20 14:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		08/30/20 14:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		08/30/20 14:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		08/30/20 14:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		08/30/20 14:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		08/30/20 14:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		08/30/20 14:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/30/20 14:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		08/30/20 14:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		08/30/20 14:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		08/30/20 14:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		08/30/20 14:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		08/30/20 14:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		08/30/20 14:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		08/30/20 14:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		08/30/20 14:10	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		08/30/20 14:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		08/30/20 14:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		08/30/20 14:10	79-34-5	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

**Sample: TRIP BLANK**      **Lab ID: 92492867003**      Collected: 08/27/20 00:00      Received: 08/27/20 11:45      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Tetrachloroethene	ND	ug/L	1.0	0.16	1		08/30/20 14:10	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		08/30/20 14:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		08/30/20 14:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		08/30/20 14:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		08/30/20 14:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		08/30/20 14:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		08/30/20 14:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		08/30/20 14:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		08/30/20 14:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		08/30/20 14:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		08/30/20 14:10	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		08/30/20 14:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		08/30/20 14:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		08/30/20 14:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/30/20 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		08/30/20 14:10	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		08/30/20 14:10	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
 Pace Project No.: 92492867

QC Batch: 563324	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV Low Level SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492867003

METHOD BLANK: 2986877 Matrix: Water

Associated Lab Samples: 92492867003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	08/30/20 13:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	08/30/20 13:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	08/30/20 13:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	08/30/20 13:53	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	08/30/20 13:53	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	08/30/20 13:53	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	08/30/20 13:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	08/30/20 13:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	08/30/20 13:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	08/30/20 13:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	08/30/20 13:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	08/30/20 13:53	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	08/30/20 13:53	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	08/30/20 13:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	08/30/20 13:53	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	08/30/20 13:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	08/30/20 13:53	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	08/30/20 13:53	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	08/30/20 13:53	
2-Chlorotoluene	ug/L	ND	1.0	0.20	08/30/20 13:53	
2-Hexanone	ug/L	ND	5.0	0.57	08/30/20 13:53	
4-Chlorotoluene	ug/L	ND	1.0	0.20	08/30/20 13:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	08/30/20 13:53	
Acetone	ug/L	ND	25.0	6.2	08/30/20 13:53	
Benzene	ug/L	ND	1.0	0.15	08/30/20 13:53	
Bromobenzene	ug/L	ND	1.0	0.22	08/30/20 13:53	
Bromochloromethane	ug/L	ND	1.0	0.34	08/30/20 13:53	
Bromodichloromethane	ug/L	ND	1.0	0.26	08/30/20 13:53	
Bromoform	ug/L	ND	1.0	0.62	08/30/20 13:53	IK
Bromomethane	ug/L	ND	2.0	0.62	08/30/20 13:53	
Carbon tetrachloride	ug/L	ND	1.0	0.22	08/30/20 13:53	
Chlorobenzene	ug/L	ND	1.0	0.23	08/30/20 13:53	
Chloroethane	ug/L	ND	1.0	0.49	08/30/20 13:53	
Chloroform	ug/L	ND	5.0	2.3	08/30/20 13:53	
Chloromethane	ug/L	ND	1.0	0.39	08/30/20 13:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	08/30/20 13:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	08/30/20 13:53	
Dibromochloromethane	ug/L	ND	1.0	0.41	08/30/20 13:53	
Dibromomethane	ug/L	ND	1.0	0.46	08/30/20 13:53	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	08/30/20 13:53	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

METHOD BLANK: 2986877 Matrix: Water  
Associated Lab Samples: 92492867003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	08/30/20 13:53	
Ethylbenzene	ug/L	ND	1.0	0.26	08/30/20 13:53	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	08/30/20 13:53	
m&p-Xylene	ug/L	ND	2.0	0.41	08/30/20 13:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	08/30/20 13:53	
Methylene Chloride	ug/L	ND	5.0	3.7	08/30/20 13:53	
Naphthalene	ug/L	ND	1.0	0.35	08/30/20 13:53	
o-Xylene	ug/L	ND	1.0	0.22	08/30/20 13:53	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	08/30/20 13:53	
Styrene	ug/L	ND	1.0	0.27	08/30/20 13:53	
Tetrachloroethene	ug/L	ND	1.0	0.16	08/30/20 13:53	
Toluene	ug/L	ND	1.0	0.24	08/30/20 13:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	08/30/20 13:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	08/30/20 13:53	
Trichloroethene	ug/L	ND	1.0	0.22	08/30/20 13:53	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	08/30/20 13:53	
Vinyl acetate	ug/L	ND	2.0	1.4	08/30/20 13:53	
Vinyl chloride	ug/L	ND	1.0	0.24	08/30/20 13:53	
Xylene (Total)	ug/L	ND	1.0	0.63	08/30/20 13:53	
1,2-Dichloroethane-d4 (S)	%	108	70-130		08/30/20 13:53	
4-Bromofluorobenzene (S)	%	104	70-130		08/30/20 13:53	
Toluene-d8 (S)	%	105	70-130		08/30/20 13:53	

LABORATORY CONTROL SAMPLE: 2986878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,1-Trichloroethane	ug/L	50	55.5	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,2-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethane	ug/L	50	54.0	108	70-130	
1,1-Dichloroethene	ug/L	50	53.7	107	70-130	
1,1-Dichloropropene	ug/L	50	54.9	110	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.0	100	70-130	
1,2,3-Trichloropropane	ug/L	50	49.3	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	52.1	104	70-130	
1,2-Dichloropropane	ug/L	50	51.7	103	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	51.0	102	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
2,2-Dichloropropane	ug/L	50	56.9	114	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

LABORATORY CONTROL SAMPLE: 2986878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	113	113	70-130	
2-Chlorotoluene	ug/L	50	50.5	101	70-130	
2-Hexanone	ug/L	100	99.8	100	70-130	
4-Chlorotoluene	ug/L	50	49.9	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	112	112	70-130	
Benzene	ug/L	50	49.9	100	70-130	
Bromobenzene	ug/L	50	49.7	99	70-130	
Bromochloromethane	ug/L	50	53.7	107	70-130	
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	42.3	85	70-130	IK
Bromomethane	ug/L	50	46.7	93	70-130	
Carbon tetrachloride	ug/L	50	52.9	106	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	35.9	72	70-130	
Chloroform	ug/L	50	52.3	105	70-130	
Chloromethane	ug/L	50	43.1	86	70-130	
cis-1,2-Dichloroethene	ug/L	50	53.7	107	70-130	
cis-1,3-Dichloropropene	ug/L	50	56.9	114	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dibromomethane	ug/L	50	51.7	103	70-130	
Dichlorodifluoromethane	ug/L	50	39.3	79	70-130	
Diisopropyl ether	ug/L	50	56.4	113	70-130	
Ethylbenzene	ug/L	50	48.5	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.3	109	70-130	
m&p-Xylene	ug/L	100	95.5	96	70-130	
Methyl-tert-butyl ether	ug/L	50	56.4	113	70-130	
Methylene Chloride	ug/L	50	52.6	105	70-130	
Naphthalene	ug/L	50	48.4	97	70-130	
o-Xylene	ug/L	50	49.4	99	70-130	
p-Isopropyltoluene	ug/L	50	50.6	101	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	51.7	103	70-130	
Toluene	ug/L	50	49.3	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.8	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.7	109	70-130	
Trichloroethene	ug/L	50	52.5	105	70-130	
Trichlorofluoromethane	ug/L	50	42.4	85	70-130	
Vinyl acetate	ug/L	100	116	116	70-130	
Vinyl chloride	ug/L	50	41.5	83	70-130	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	2986879		2986880		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	<1.0	20	20	25.5	24.3	127	122	73-134	5	30		
1,1,1-Trichloroethane	ug/L	<1.0	20	20	24.1	23.5	121	117	82-143	3	30		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	24.2	23.1	121	115	70-136	5	30		
1,1,2-Trichloroethane	ug/L	<1.0	20	20	22.4	21.7	112	109	70-135	3	30		
1,1-Dichloroethane	ug/L	<1.0	20	20	22.5	22.3	113	111	70-139	1	30		
1,1-Dichloroethene	ug/L	<1.0	20	20	23.7	23.6	118	118	70-154	1	30		
1,1-Dichloropropene	ug/L	<1.0	20	20	24.2	23.6	121	118	70-149	2	30		
1,2,3-Trichlorobenzene	ug/L	<1.0	20	20	24.3	24.6	121	123	70-135	1	30		
1,2,3-Trichloropropane	ug/L	<1.0	20	20	23.8	22.2	119	111	71-137	7	30		
1,2,4-Trichlorobenzene	ug/L	<1.0	20	20	24.5	23.4	122	117	73-140	5	30		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	20	20	24.7	24.7	123	124	65-134	0	30		
1,2-Dichlorobenzene	ug/L	<1.0	20	20	23.5	23.8	117	119	70-133	1	30		
1,2-Dichloroethane	ug/L	<1.0	20	20	21.1	20.9	105	104	70-137	1	30		
1,2-Dichloropropane	ug/L	<1.0	20	20	23.5	23.0	118	115	70-140	2	30		
1,3-Dichlorobenzene	ug/L	<1.0	20	20	23.2	22.9	116	114	70-135	1	30		
1,3-Dichloropropane	ug/L	<1.0	20	20	24.1	23.3	121	117	70-143	3	30		
1,4-Dichlorobenzene	ug/L	<1.0	20	20	23.6	23.4	118	117	70-133	1	30		
2,2-Dichloropropane	ug/L	<1.0	20	20	24.7	24.5	124	123	61-148	1	30		
2-Butanone (MEK)	ug/L	14.2	40	40	67.0	64.1	132	125	60-139	4	30		
2-Chlorotoluene	ug/L	<1.0	20	20	24.7	23.8	123	119	70-144	4	30		
2-Hexanone	ug/L	<5.0	40	40	51.8	49.3	129	123	65-138	5	30		
4-Chlorotoluene	ug/L	<1.0	20	20	23.0	23.1	115	115	70-137	0	30		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	40	48.2	46.2	120	115	65-135	4	30		
Acetone	ug/L	88.6	40	40	124	127	89	96	60-148	2	30		
Benzene	ug/L	2.9	20	20	25.6	24.9	114	110	70-151	3	30		
Bromobenzene	ug/L	<1.0	20	20	23.0	23.5	115	117	70-136	2	30		
Bromochloromethane	ug/L	<1.0	20	20	24.1	23.2	121	116	70-141	4	30		
Bromodichloromethane	ug/L	<1.0	20	20	21.3	20.5	107	102	70-138	4	30		
Bromoform	ug/L	<1.0	20	20	20.6	20.6	103	103	63-130	0	30		
Bromomethane	ug/L	<2.0	20	20	19.4	17.8	97	89	15-152	9	30		
Carbon tetrachloride	ug/L	<1.0	20	20	24.7	24.1	124	120	70-143	3	30		
Chlorobenzene	ug/L	<1.0	20	20	23.2	22.5	116	113	70-138	3	30		
Chloroethane	ug/L	<1.0	20	20	21.8	21.3	109	106	52-163	3	30		
Chloroform	ug/L	<5.0	20	20	23.3	22.5	115	111	70-139	3	30		
Chloromethane	ug/L	<1.0	20	20	20.0	19.1	100	95	41-139	5	30		
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	22.4	22.4	112	112	70-141	0	30		
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	23.7	23.4	119	117	70-137	1	30		
Dibromochloromethane	ug/L	<1.0	20	20	24.2	22.3	121	112	70-134	8	30		
Dibromomethane	ug/L	<1.0	20	20	22.8	22.1	114	111	70-138	3	30		
Dichlorodifluoromethane	ug/L	<1.0	20	20	19.7	19.4	99	97	47-155	2	30		
Diisopropyl ether	ug/L	<1.0	20	20	22.9	22.5	114	112	63-144	2	30		
Ethylbenzene	ug/L	<1.0	20	20	23.9	23.0	120	115	66-153	4	30		
Hexachloro-1,3-butadiene	ug/L	<1.0	20	20	29.9	29.9	149	150	65-149	0	30	IK,M1	
m&p-Xylene	ug/L	<2.0	40	40	46.9	46.4	117	116	69-152	1	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986879		2986880		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92493107001 Result	MS Spike Conc.	MSD Spike Conc.									
Methyl-tert-butyl ether	ug/L	<1.0	20	20	24.3	23.2	121	116	54-156	4	30		
Methylene Chloride	ug/L	<5.0	20	20	21.8	21.5	109	107	42-159	2	30		
Naphthalene	ug/L	1.5	20	20	25.7	24.9	121	117	61-148	3	30		
o-Xylene	ug/L	<1.0	20	20	23.7	23.8	119	119	70-148	0	30		
p-Isopropyltoluene	ug/L	<1.0	20	20	23.7	23.6	118	118	70-146	0	30		
Styrene	ug/L	<1.0	20	20	24.7	23.8	124	119	70-135	4	30		
Tetrachloroethene	ug/L	<1.0	20	20	23.4	22.9	117	115	59-143	2	30		
Toluene	ug/L	0.85J	20	20	23.2	22.8	112	110	59-148	2	30		
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	22.8	22.5	114	113	70-146	1	30		
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	23.2	22.5	116	112	70-135	3	30		
Trichloroethene	ug/L	<1.0	20	20	25.1	23.5	125	117	70-147	6	30		
Trichlorofluoromethane	ug/L	<1.0	20	20	22.9	22.4	115	112	70-148	2	30		
Vinyl acetate	ug/L	<2.0	40	40	51.7	50.7	129	127	49-151	2	30		
Vinyl chloride	ug/L	<1.0	20	20	20.7	20.6	103	103	70-156	0	30		
Xylene (Total)	ug/L	<1.0	60	60	70.7	70.1	118	117	63-158	1	30		
1,2-Dichloroethane-d4 (S)	%						99	101	70-130				
4-Bromofluorobenzene (S)	%						101	101	70-130				
Toluene-d8 (S)	%						98	96	70-130				

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
 Pace Project No.: 92492867

QC Batch: 563665 Analysis Method: EPA 8260D  
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492867001, 92492867002

METHOD BLANK: 2988372 Matrix: Water

Associated Lab Samples: 92492867001, 92492867002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	09/01/20 22:54	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	09/01/20 22:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	09/01/20 22:54	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	09/01/20 22:54	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	09/01/20 22:54	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	09/01/20 22:54	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	09/01/20 22:54	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	09/01/20 22:54	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	09/01/20 22:54	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	09/01/20 22:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	09/01/20 22:54	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	09/01/20 22:54	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	09/01/20 22:54	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	09/01/20 22:54	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	09/01/20 22:54	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	09/01/20 22:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	09/01/20 22:54	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	09/01/20 22:54	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	09/01/20 22:54	
2-Chlorotoluene	ug/L	ND	1.0	0.20	09/01/20 22:54	
2-Hexanone	ug/L	ND	5.0	0.57	09/01/20 22:54	
4-Chlorotoluene	ug/L	ND	1.0	0.20	09/01/20 22:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	09/01/20 22:54	
Acetone	ug/L	ND	25.0	6.2	09/01/20 22:54	
Benzene	ug/L	ND	1.0	0.15	09/01/20 22:54	
Bromobenzene	ug/L	ND	1.0	0.22	09/01/20 22:54	
Bromochloromethane	ug/L	ND	1.0	0.34	09/01/20 22:54	
Bromodichloromethane	ug/L	ND	1.0	0.26	09/01/20 22:54	
Bromoform	ug/L	ND	1.0	0.62	09/01/20 22:54	
Bromomethane	ug/L	ND	2.0	0.62	09/01/20 22:54	
Carbon tetrachloride	ug/L	ND	1.0	0.22	09/01/20 22:54	
Chlorobenzene	ug/L	ND	1.0	0.23	09/01/20 22:54	
Chloroethane	ug/L	ND	1.0	0.49	09/01/20 22:54	
Chloroform	ug/L	ND	5.0	2.3	09/01/20 22:54	
Chloromethane	ug/L	ND	1.0	0.39	09/01/20 22:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	09/01/20 22:54	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	09/01/20 22:54	
Dibromochloromethane	ug/L	ND	1.0	0.41	09/01/20 22:54	
Dibromomethane	ug/L	ND	1.0	0.46	09/01/20 22:54	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	09/01/20 22:54	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

METHOD BLANK: 2988372 Matrix: Water  
Associated Lab Samples: 92492867001, 92492867002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	09/01/20 22:54	
Ethylbenzene	ug/L	ND	1.0	0.26	09/01/20 22:54	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	09/01/20 22:54	
m&p-Xylene	ug/L	ND	2.0	0.41	09/01/20 22:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	09/01/20 22:54	
Methylene Chloride	ug/L	ND	5.0	3.7	09/01/20 22:54	
Naphthalene	ug/L	ND	1.0	0.35	09/01/20 22:54	
o-Xylene	ug/L	ND	1.0	0.22	09/01/20 22:54	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	09/01/20 22:54	
Styrene	ug/L	ND	1.0	0.27	09/01/20 22:54	
Tetrachloroethene	ug/L	ND	1.0	0.16	09/01/20 22:54	
Toluene	ug/L	ND	1.0	0.24	09/01/20 22:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	09/01/20 22:54	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	09/01/20 22:54	
Trichloroethene	ug/L	ND	1.0	0.22	09/01/20 22:54	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	09/01/20 22:54	
Vinyl acetate	ug/L	ND	2.0	1.4	09/01/20 22:54	
Vinyl chloride	ug/L	ND	1.0	0.24	09/01/20 22:54	
Xylene (Total)	ug/L	ND	1.0	0.63	09/01/20 22:54	
1,2-Dichloroethane-d4 (S)	%	93	70-130		09/01/20 22:54	
4-Bromofluorobenzene (S)	%	103	70-130		09/01/20 22:54	
Toluene-d8 (S)	%	106	70-130		09/01/20 22:54	

LABORATORY CONTROL SAMPLE: 2988373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.2	110	70-130	
1,1,1-Trichloroethane	ug/L	50	56.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethene	ug/L	50	53.1	106	70-130	
1,1-Dichloropropene	ug/L	50	57.3	115	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.3	105	70-130	
1,2,3-Trichloropropane	ug/L	50	54.2	108	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.3	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.9	114	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	51.4	103	70-130	
1,2-Dichloropropane	ug/L	50	53.1	106	70-130	
1,3-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,3-Dichloropropane	ug/L	50	55.2	110	70-130	
1,4-Dichlorobenzene	ug/L	50	52.3	105	70-130	
2,2-Dichloropropane	ug/L	50	58.9	118	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

LABORATORY CONTROL SAMPLE: 2988373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	92.2	92	70-130	
2-Chlorotoluene	ug/L	50	52.1	104	70-130	
2-Hexanone	ug/L	100	102	102	70-130	
4-Chlorotoluene	ug/L	50	51.3	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.6	98	70-130	
Acetone	ug/L	100	96.9	97	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	49.9	100	70-130	
Bromochloromethane	ug/L	50	54.5	109	70-130	
Bromodichloromethane	ug/L	50	50.0	100	70-130	
Bromoform	ug/L	50	56.3	113	70-130	
Bromomethane	ug/L	50	55.6	111	70-130	
Carbon tetrachloride	ug/L	50	55.0	110	70-130	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	38.4	77	70-130	
Chloroform	ug/L	50	52.2	104	70-130	
Chloromethane	ug/L	50	36.4	73	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	59.2	118	70-130	
Dibromochloromethane	ug/L	50	57.8	116	70-130	
Dibromomethane	ug/L	50	52.6	105	70-130	
Dichlorodifluoromethane	ug/L	50	35.4	71	70-130	
Diisopropyl ether	ug/L	50	51.2	102	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.0	106	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	57.1	114	70-130	
Methylene Chloride	ug/L	50	48.4	97	70-130	
Naphthalene	ug/L	50	51.0	102	70-130	
o-Xylene	ug/L	50	50.1	100	70-130	
p-Isopropyltoluene	ug/L	50	52.4	105	70-130	
Styrene	ug/L	50	53.7	107	70-130	
Tetrachloroethene	ug/L	50	52.3	105	70-130	
Toluene	ug/L	50	48.1	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.2	114	70-130	
Trichloroethene	ug/L	50	55.1	110	70-130	
Trichlorofluoromethane	ug/L	50	41.5	83	70-130	
Vinyl acetate	ug/L	100	98.4	98	70-130	
Vinyl chloride	ug/L	50	37.6	75	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	2988374			2988375			% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		92492867001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	521	540	104	108	73-134	4	30			
1,1,1-Trichloroethane	ug/L	ND	500	500	601	583	120	117	82-143	3	30			
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	478	488	96	98	70-136	2	30			
1,1,2-Trichloroethane	ug/L	ND	500	500	488	507	98	101	70-135	4	30			
1,1-Dichloroethane	ug/L	ND	500	500	535	533	107	107	70-139	0	30			
1,1-Dichloroethene	ug/L	ND	500	500	586	583	117	117	70-154	0	30			
1,1-Dichloropropene	ug/L	ND	500	500	546	563	109	113	70-149	3	30			
1,2,3-Trichlorobenzene	ug/L	ND	500	500	520	517	104	103	70-135	0	30			
1,2,3-Trichloropropane	ug/L	ND	500	500	470	500	94	100	71-137	6	30			
1,2,4-Trichlorobenzene	ug/L	ND	500	500	515	534	103	107	73-140	4	30			
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	512	524	102	105	65-134	2	30			
1,2-Dichlorobenzene	ug/L	ND	500	500	524	527	105	105	70-133	1	30			
1,2-Dichloroethane	ug/L	ND	500	500	527	533	105	107	70-137	1	30			
1,2-Dichloropropane	ug/L	ND	500	500	530	543	106	109	70-140	2	30			
1,3-Dichlorobenzene	ug/L	ND	500	500	522	532	104	106	70-135	2	30			
1,3-Dichloropropane	ug/L	ND	500	500	500	521	100	104	70-143	4	30			
1,4-Dichlorobenzene	ug/L	ND	500	500	521	534	104	107	70-133	2	30			
2,2-Dichloropropane	ug/L	ND	500	500	380	388	76	78	61-148	2	30			
2-Butanone (MEK)	ug/L	ND	1000	1000	842	838	84	84	60-139	0	30			
2-Chlorotoluene	ug/L	ND	500	500	535	531	107	106	70-144	1	30			
2-Hexanone	ug/L	ND	1000	1000	982	1050	98	105	65-138	7	30			
4-Chlorotoluene	ug/L	ND	500	500	517	519	103	104	70-137	1	30			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1000	972	1000	97	100	65-135	3	30			
Acetone	ug/L	ND	1000	1000	1030	1090	103	109	60-148	5	30			
Benzene	ug/L	ND	500	500	518	540	104	108	70-151	4	30			
Bromobenzene	ug/L	ND	500	500	500	509	100	102	70-136	2	30			
Bromochloromethane	ug/L	ND	500	500	554	531	111	106	70-141	4	30			
Bromodichloromethane	ug/L	ND	500	500	493	525	99	105	70-138	6	30			
Bromoform	ug/L	ND	500	500	521	543	104	109	63-130	4	30			
Bromomethane	ug/L	ND	500	500	635	643	127	129	15-152	1	30			
Carbon tetrachloride	ug/L	ND	500	500	610	637	122	127	70-143	4	30			
Chlorobenzene	ug/L	ND	500	500	512	537	102	107	70-138	5	30			
Chloroethane	ug/L	ND	500	500	438	456	88	91	52-163	4	30			
Chloroform	ug/L	ND	500	500	547	552	109	110	70-139	1	30			
Chloromethane	ug/L	ND	500	500	381	371	76	74	41-139	3	30			
cis-1,2-Dichloroethene	ug/L	ND	500	500	536	533	107	107	70-141	1	30			
cis-1,3-Dichloropropene	ug/L	ND	500	500	498	519	100	104	70-137	4	30			
Dibromochloromethane	ug/L	ND	500	500	521	559	104	112	70-134	7	30			
Dibromomethane	ug/L	ND	500	500	548	565	110	113	70-138	3	30			
Dichlorodifluoromethane	ug/L	ND	500	500	350	343	70	69	47-155	2	30			
Diisopropyl ether	ug/L	ND	500	500	490	467	98	93	63-144	5	30			
Ethylbenzene	ug/L	31.3	500	500	557	583	105	110	66-153	5	30			
Hexachloro-1,3-butadiene	ug/L	ND	500	500	545	573	109	115	65-149	5	30			
m&p-Xylene	ug/L	27.1J	1000	1000	1110	1130	108	110	69-152	2	30			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	2988374		2988375		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92492867001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Methyl-tert-butyl ether	ug/L	ND	500	500	519	533	104	107	54-156	3	30		
Methylene Chloride	ug/L	ND	500	500	518	511	104	102	42-159	1	30		
Naphthalene	ug/L	2930	500	500	3410	3530	96	119	61-148	3	30		
o-Xylene	ug/L	11.6J	500	500	534	548	104	107	70-148	3	30		
p-Isopropyltoluene	ug/L	ND	500	500	528	545	106	109	70-146	3	30		
Styrene	ug/L	ND	500	500	536	543	107	109	70-135	1	30		
Tetrachloroethene	ug/L	ND	500	500	534	557	107	111	59-143	4	30		
Toluene	ug/L	ND	500	500	513	536	103	107	59-148	4	30		
trans-1,2-Dichloroethene	ug/L	ND	500	500	568	542	114	108	70-146	5	30		
trans-1,3-Dichloropropene	ug/L	ND	500	500	489	500	98	100	70-135	2	30		
Trichloroethene	ug/L	ND	500	500	549	562	110	112	70-147	2	30		
Trichlorofluoromethane	ug/L	ND	500	500	476	517	95	103	70-148	8	30		
Vinyl acetate	ug/L	ND	1000	1000	855	871	86	87	49-151	2	30		
Vinyl chloride	ug/L	ND	500	500	387	392	77	78	70-156	1	30		
Xylene (Total)	ug/L	ND	1500	1500	1640	1670	109	112	63-158	2	30		
1,2-Dichloroethane-d4 (S)	%						103	100	70-130				
4-Bromofluorobenzene (S)	%						102	100	70-130				
Toluene-d8 (S)	%						98	99	70-130				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

QC Batch: 563004 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3510C Analysis Description: 8270E Water MSSV RVE  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492867001, 92492867002

METHOD BLANK: 2985515 Matrix: Water

Associated Lab Samples: 92492867001, 92492867002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.6	08/28/20 08:43	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.4	08/28/20 08:43	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	08/28/20 08:43	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.5	08/28/20 08:43	
1-Methylnaphthalene	ug/L	ND	10.0	1.4	08/28/20 08:43	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.3	08/28/20 08:43	v1
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	08/28/20 08:43	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	08/28/20 08:43	
2,4-Dichlorophenol	ug/L	ND	10.0	1.5	08/28/20 08:43	
2,4-Dimethylphenol	ug/L	ND	10.0	1.5	08/28/20 08:43	
2,4-Dinitrophenol	ug/L	ND	50.0	7.3	08/28/20 08:43	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.7	08/28/20 08:43	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.7	08/28/20 08:43	
2-Chloronaphthalene	ug/L	ND	10.0	1.4	08/28/20 08:43	
2-Chlorophenol	ug/L	ND	10.0	1.4	08/28/20 08:43	
2-Methylnaphthalene	ug/L	ND	10.0	1.4	08/28/20 08:43	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.2	08/28/20 08:43	
2-Nitroaniline	ug/L	ND	20.0	3.0	08/28/20 08:43	v1
2-Nitrophenol	ug/L	ND	10.0	1.7	08/28/20 08:43	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.2	08/28/20 08:43	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	2.7	08/28/20 08:43	
3-Nitroaniline	ug/L	ND	20.0	2.8	08/28/20 08:43	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	4.5	08/28/20 08:43	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.2	08/28/20 08:43	
4-Chloro-3-methylphenol	ug/L	ND	10.0	2.8	08/28/20 08:43	
4-Chloroaniline	ug/L	ND	20.0	2.8	08/28/20 08:43	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.5	08/28/20 08:43	
4-Nitroaniline	ug/L	ND	20.0	3.1	08/28/20 08:43	
4-Nitrophenol	ug/L	ND	50.0	9.4	08/28/20 08:43	
Acenaphthene	ug/L	ND	10.0	1.4	08/28/20 08:43	
Acenaphthylene	ug/L	ND	10.0	1.5	08/28/20 08:43	
Aniline	ug/L	ND	10.0	1.6	08/28/20 08:43	
Anthracene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Benzo(a)anthracene	ug/L	ND	10.0	1.5	08/28/20 08:43	
Benzo(a)pyrene	ug/L	ND	10.0	1.8	08/28/20 08:43	
Benzo(b)fluoranthene	ug/L	ND	10.0	1.7	08/28/20 08:43	
Benzo(g,h,i)perylene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Benzo(k)fluoranthene	ug/L	ND	10.0	1.5	08/28/20 08:43	
Benzoic Acid	ug/L	ND	50.0	19.5	08/28/20 08:43	
Benzyl alcohol	ug/L	ND	20.0	2.6	08/28/20 08:43	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

METHOD BLANK: 2985515 Matrix: Water  
Associated Lab Samples: 92492867001, 92492867002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.3	08/28/20 08:43	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	08/28/20 08:43	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.0	08/28/20 08:43	
Butylbenzylphthalate	ug/L	ND	10.0	1.9	08/28/20 08:43	
Chrysene	ug/L	ND	10.0	1.4	08/28/20 08:43	
Di-n-butylphthalate	ug/L	ND	10.0	1.6	08/28/20 08:43	
Di-n-octylphthalate	ug/L	ND	10.0	2.2	08/28/20 08:43	
Dibenz(a,h)anthracene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Dibenzofuran	ug/L	ND	10.0	1.3	08/28/20 08:43	
Diethylphthalate	ug/L	ND	10.0	1.6	08/28/20 08:43	
Dimethylphthalate	ug/L	ND	10.0	1.4	08/28/20 08:43	
Fluoranthene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Fluorene	ug/L	ND	10.0	1.4	08/28/20 08:43	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Hexachlorobenzene	ug/L	ND	10.0	1.3	08/28/20 08:43	
Hexachlorocyclopentadiene	ug/L	ND	10.0	2.4	08/28/20 08:43	
Hexachloroethane	ug/L	ND	10.0	1.3	08/28/20 08:43	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	1.7	08/28/20 08:43	
Isophorone	ug/L	ND	10.0	1.3	08/28/20 08:43	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.3	08/28/20 08:43	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.8	08/28/20 08:43	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	08/28/20 08:43	
Naphthalene	ug/L	ND	10.0	1.6	08/28/20 08:43	
Nitrobenzene	ug/L	ND	10.0	1.5	08/28/20 08:43	
Pentachlorophenol	ug/L	ND	20.0	2.8	08/28/20 08:43	
Phenanthrene	ug/L	ND	10.0	1.4	08/28/20 08:43	
Phenol	ug/L	ND	10.0	1.5	08/28/20 08:43	
Pyrene	ug/L	ND	10.0	1.5	08/28/20 08:43	
2,4,6-Tribromophenol (S)	%	78	10-137		08/28/20 08:43	
2-Fluorobiphenyl (S)	%	59	13-130		08/28/20 08:43	
2-Fluorophenol (S)	%	47	10-130		08/28/20 08:43	
Nitrobenzene-d5 (S)	%	68	13-130		08/28/20 08:43	
Phenol-d6 (S)	%	38	10-130		08/28/20 08:43	
Terphenyl-d14 (S)	%	108	25-130		08/28/20 08:43	

LABORATORY CONTROL SAMPLE: 2985516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	30.3	61	30-130	
1,2-Dichlorobenzene	ug/L	50	29.3	59	30-130	
1,3-Dichlorobenzene	ug/L	50	27.5	55	20-130	
1,4-Dichlorobenzene	ug/L	50	29.2	58	30-130	
1-Methylnaphthalene	ug/L	50	35.8	72	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	53.8	108	20-130 v1	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

LABORATORY CONTROL SAMPLE: 2985516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	39.3	79	40-130	
2,4,6-Trichlorophenol	ug/L	50	37.1	74	40-130	
2,4-Dichlorophenol	ug/L	50	38.2	76	31-130	
2,4-Dimethylphenol	ug/L	50	42.4	85	30-130	
2,4-Dinitrophenol	ug/L	250	187	75	30-130	
2,4-Dinitrotoluene	ug/L	50	42.7	85	49-130	
2,6-Dinitrotoluene	ug/L	50	44.6	89	50-130	
2-Chloronaphthalene	ug/L	50	36.9	74	30-130	
2-Chlorophenol	ug/L	50	37.5	75	30-130	
2-Methylnaphthalene	ug/L	50	37.3	75	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	36.1	72	30-130	
2-Nitroaniline	ug/L	100	88.9	89	40-130 v1	
2-Nitrophenol	ug/L	50	39.5	79	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.0	68	20-130	
3,3'-Dichlorobenzidine	ug/L	100	80.5	80	10-150	
3-Nitroaniline	ug/L	100	85.5	86	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	80.1	80	40-130	
4-Bromophenylphenyl ether	ug/L	50	37.6	75	30-130	
4-Chloro-3-methylphenol	ug/L	100	81.7	82	30-130	
4-Chloroaniline	ug/L	100	76.9	77	20-130	
4-Chlorophenylphenyl ether	ug/L	50	35.8	72	20-130	
4-Nitroaniline	ug/L	100	85.4	85	40-130	
4-Nitrophenol	ug/L	250	134	54	10-130	
Acenaphthene	ug/L	50	37.9	76	30-130	
Acenaphthylene	ug/L	50	39.3	79	30-130	
Aniline	ug/L	50	33.0	66	20-130	
Anthracene	ug/L	50	36.0	72	50-130	
Benzo(a)anthracene	ug/L	50	39.3	79	50-130	
Benzo(a)pyrene	ug/L	50	39.5	79	50-130	
Benzo(b)fluoranthene	ug/L	50	41.7	83	50-130	
Benzo(g,h,i)perylene	ug/L	50	39.6	79	50-130	
Benzo(k)fluoranthene	ug/L	50	40.9	82	50-130	
Benzoic Acid	ug/L	250	122	49	10-130	
Benzyl alcohol	ug/L	100	69.5	70	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	39.0	78	30-130	
bis(2-Chloroethyl) ether	ug/L	50	39.1	78	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.0	90	50-130	
Butylbenzylphthalate	ug/L	50	49.2	98	50-150	
Chrysene	ug/L	50	40.0	80	50-130	
Di-n-butylphthalate	ug/L	50	43.5	87	50-130	
Di-n-octylphthalate	ug/L	50	49.8	100	50-130	
Dibenz(a,h)anthracene	ug/L	50	38.7	77	40-130	
Dibenzofuran	ug/L	50	38.9	78	40-130	
Diethylphthalate	ug/L	50	41.7	83	40-130	
Dimethylphthalate	ug/L	50	39.7	79	40-130	
Fluoranthene	ug/L	50	39.0	78	30-130	
Fluorene	ug/L	50	38.4	77	20-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
Pace Project No.: 92492867

LABORATORY CONTROL SAMPLE: 2985516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	26.1	52	10-130	
Hexachlorobenzene	ug/L	50	35.7	71	30-130	
Hexachlorocyclopentadiene	ug/L	50	30.5	61	10-150	
Hexachloroethane	ug/L	50	26.5	53	10-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	40.0	80	40-130	
Isophorone	ug/L	50	40.2	80	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	43.7	87	30-130	
N-Nitrosodimethylamine	ug/L	50	30.6	61	10-130	
N-Nitrosodiphenylamine	ug/L	50	40.7	81	30-130	
Naphthalene	ug/L	50	33.9	68	20-130	
Nitrobenzene	ug/L	50	38.3	77	20-130	
Pentachlorophenol	ug/L	100	74.4	74	10-140	
Phenanthrene	ug/L	50	38.7	77	50-130	
Phenol	ug/L	50	23.2	46	10-130	
Pyrene	ug/L	50	41.1	82	50-130	
2,4,6-Tribromophenol (S)	%			78	10-137	
2-Fluorobiphenyl (S)	%			67	13-130	
2-Fluorophenol (S)	%			54	10-130	
Nitrobenzene-d5 (S)	%			76	13-130	
Phenol-d6 (S)	%			45	10-130	
Terphenyl-d14 (S)	%			95	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985517 2985518

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92492902001 Result	Spike Conc.	Spike Conc.	Result						
1,2,4-Trichlorobenzene	ug/L	<50.0	50	50	26.2J	31.3J	52	63	30-130	30	
1,2-Dichlorobenzene	ug/L	<50.0	50	50	22.1J	28.3J	44	57	30-130	30	
1,3-Dichlorobenzene	ug/L	<50.0	50	50	21.4J	27.0J	43	54	20-130	30	
1,4-Dichlorobenzene	ug/L	<50.0	50	50	22.6J	29.5J	45	59	30-130	30	
1-Methylnaphthalene	ug/L	<50.0	50	50	26.6J	29.0J	53	58	30-130	30	
2,2'-Oxybis(1-chloropropane)	ug/L	<50.0	50	50	28.5J	31.5J	57	63	20-130	30	
2,4,5-Trichlorophenol	ug/L	<50.0	50	50	41.2J	41.0J	82	82	40-130	30	
2,4,6-Trichlorophenol	ug/L	<50.0	50	50	38.8J	38.7J	78	77	40-130	30	
2,4-Dichlorophenol	ug/L	<50.0	50	50	36.0J	37.8J	72	76	31-130	30	
2,4-Dimethylphenol	ug/L	<50.0	50	50	42.3J	45.0J	85	90	30-130	30	
2,4-Dinitrophenol	ug/L	<250	250	250	108J	111J	43	44	30-130	30	
2,4-Dinitrotoluene	ug/L	<50.0	50	50	37.8J	36.4J	76	73	49-130	30	
2,6-Dinitrotoluene	ug/L	<50.0	50	50	36.8J	39.3J	74	79	50-130	30	
2-Chloronaphthalene	ug/L	<50.0	50	50	30.5J	33.4J	61	67	30-130	30	
2-Chlorophenol	ug/L	<50.0	50	50	28.0J	32.5J	56	65	30-130	30	
2-Methylnaphthalene	ug/L	<50.0	50	50	28.3J	31.3J	57	63	30-130	30	
2-Methylphenol(o-Cresol)	ug/L	32.7J	50	50	48.2J	57.3	31	49	30-130	30	
2-Nitroaniline	ug/L	<100	100	100	73.0J	72.0J	73	72	40-130	30	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	2985517		2985518		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92492902001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
2-Nitrophenol	ug/L	<50.0	50	50	29.0J	33.7J	58	67	20-130		30		
3&4-Methylphenol(m&p Cresol)	ug/L	30.4J	50	50	77.9	89.8	95	119	20-130	14	30		
3,3'-Dichlorobenzidine	ug/L	<100	100	100	61.3J	50.2J	61	50	10-150		30		
3-Nitroaniline	ug/L	<100	100	100	69.2J	66.2J	69	66	40-130		30		
4,6-Dinitro-2-methylphenol	ug/L	<100	100	100	56.8J	55.0J	57	55	40-130		30		
4-Bromophenylphenyl ether	ug/L	<50.0	50	50	36.7J	34.3J	73	69	30-130		30		
4-Chloro-3-methylphenol	ug/L	<50.0	100	100	76.4	80.8	76	81	30-130	6	30		
4-Chloroaniline	ug/L	<100	100	100	53.5J	55.2J	53	55	20-130		30		
4-Chlorophenylphenyl ether	ug/L	<50.0	50	50	33.2J	33.2J	66	66	20-130		30		
4-Nitroaniline	ug/L	<100	100	100	75.8J	72.5J	76	73	40-130		30		
4-Nitrophenol	ug/L	<250	250	250	149J	159J	59	64	10-130		30		
Acenaphthene	ug/L	<50.0	50	50	30.1J	32.5J	60	65	30-130		30		
Acenaphthylene	ug/L	<50.0	50	50	31.2J	33.4J	62	67	30-130		30		
Aniline	ug/L	<50.0	50	50	23.8J	27.5J	48	55	20-130		30		
Anthracene	ug/L	<50.0	50	50	30.7J	29.0J	61	58	50-130		30		
Benzo(a)anthracene	ug/L	<50.0	50	50	35.1J	33.9J	70	68	50-130		30		
Benzo(a)pyrene	ug/L	<50.0	50	50	35.0J	33.3J	70	67	50-130		30		
Benzo(b)fluoranthene	ug/L	<50.0	50	50	36.2J	35.1J	72	70	50-130		30		
Benzo(g,h,i)perylene	ug/L	<50.0	50	50	35.7J	32.8J	71	66	50-130		30		
Benzo(k)fluoranthene	ug/L	<50.0	50	50	34.6J	32.2J	69	64	50-130		30		
Benzoic Acid	ug/L	108J	250	250	204J	240J	38	53	10-130		30		
Benzyl alcohol	ug/L	<100	100	100	59.2J	69.3J	59	69	20-130		30		
bis(2- Chloroethoxy)methane	ug/L	<50.0	50	50	28.5J	32.2J	57	64	30-130		30		
bis(2-Chloroethyl) ether	ug/L	<50.0	50	50	27.0J	33.3J	54	67	30-130		30		
bis(2-Ethylhexyl)phthalate	ug/L	<30.0	50	50	40.7	38.2	81	76	50-130	6	30		
Butylbenzylphthalate	ug/L	<50.0	50	50	41.2J	40.5J	82	81	50-150		30		
Chrysene	ug/L	<50.0	50	50	34.8J	33.0J	70	66	50-130		30		
Di-n-butylphthalate	ug/L	<50.0	50	50	38.4J	36.2J	77	72	50-130		30		
Di-n-octylphthalate	ug/L	<50.0	50	50	43.8J	40.0J	88	80	50-130		30		
Dibenz(a,h)anthracene	ug/L	<50.0	50	50	34.3J	31.7J	69	63	40-130		30		
Dibenzofuran	ug/L	<50.0	50	50	32.7J	34.1J	65	68	40-130		30		
Diethylphthalate	ug/L	<50.0	50	50	36.3J	36.3J	73	73	40-130		30		
Dimethylphthalate	ug/L	<50.0	50	50	34.2J	34.4J	68	69	40-130		30		
Fluoranthene	ug/L	<50.0	50	50	35.0J	32.2J	70	64	30-130		30		
Fluorene	ug/L	<50.0	50	50	32.5J	33.6J	65	67	20-130		30		
Hexachloro-1,3-butadiene	ug/L	<50.0	50	50	24.8J	29.1J	50	58	10-130		30		
Hexachlorobenzene	ug/L	<50.0	50	50	35.4J	33.6J	71	67	30-130		30		
Hexachlorocyclopentadiene	ug/L	<50.0	50	50	25.3J	29.5J	51	59	10-150		30		
Hexachloroethane	ug/L	<50.0	50	50	21.7J	29.8J	43	60	10-130		30		
Indeno(1,2,3-cd)pyrene	ug/L	<50.0	50	50	35.1J	33.4J	70	67	40-130		30		
Isophorone	ug/L	<50.0	50	50	26.7J	30.5J	53	61	30-130		30		
N-Nitroso-di-n-propylamine	ug/L	<50.0	50	50	29.0J	35.6J	58	71	30-130		30		
N-Nitrosodimethylamine	ug/L	<50.0	50	50	24.3J	30.5J	49	61	10-130		30		
N-Nitrosodiphenylamine	ug/L	<50.0	50	50	35.1J	34.0J	70	68	30-130		30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Parameter	Units	2985517		2985518		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92492902001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Naphthalene	ug/L	<50.0	50	50	26.0J	30.3J	52	61	20-130		30		
Nitrobenzene	ug/L	<50.0	50	50	28.5J	32.9J	57	66	20-130		30		
Pentachlorophenol	ug/L	<100	100	100	57.4J	56.3J	57	56	10-140		30		
Phenanthrene	ug/L	<50.0	50	50	33.8J	32.1J	68	64	50-130		30		
Phenol	ug/L	33.1J	50	50	47.5J	62.6	29	59	10-130		30		
Pyrene	ug/L	<50.0	50	50	35.4J	33.6J	71	67	50-130		30		
2,4,6-Tribromophenol (S)	%						82	78	10-137				
2-Fluorobiphenyl (S)	%						53	59	13-130				
2-Fluorophenol (S)	%						42	56	10-130				
Nitrobenzene-d5 (S)	%						53	68	13-130			D3	
Phenol-d6 (S)	%						37	58	10-130				
Terphenyl-d14 (S)	%						87	84	25-130				

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580  
 Pace Project No.: 92492867

QC Batch: 563110 Analysis Method: EPA 8270E by SIM  
 QC Batch Method: EPA 3511 Analysis Description: 8270E 3511 Low Volume PAH SIM  
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92492867001, 92492867002

METHOD BLANK: 2985987 Matrix: Water

Associated Lab Samples: 92492867001, 92492867002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.80	0.0074	08/31/20 10:11	
2-Methylnaphthalene	ug/L	ND	0.80	0.023	08/31/20 10:11	
Acenaphthene	ug/L	ND	0.50	0.0084	08/31/20 10:11	
Acenaphthylene	ug/L	ND	0.50	0.018	08/31/20 10:11	
Anthracene	ug/L	ND	0.050	0.014	08/31/20 10:11	
Benzo(a)anthracene	ug/L	ND	0.050	0.046	08/31/20 10:11	
Benzo(a)pyrene	ug/L	ND	0.10	0.0090	08/31/20 10:11	
Benzo(b)fluoranthene	ug/L	ND	0.050	0.017	08/31/20 10:11	
Benzo(g,h,i)perylene	ug/L	ND	0.20	0.013	08/31/20 10:11	
Benzo(k)fluoranthene	ug/L	ND	0.20	0.014	08/31/20 10:11	
Chrysene	ug/L	ND	0.10	0.032	08/31/20 10:11	
Dibenz(a,h)anthracene	ug/L	ND	0.15	0.011	08/31/20 10:11	
Fluoranthene	ug/L	ND	0.30	0.015	08/31/20 10:11	
Fluorene	ug/L	ND	0.31	0.012	08/31/20 10:11	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.050	0.011	08/31/20 10:11	
Naphthalene	ug/L	ND	1.5	0.015	08/31/20 10:11	
Phenanthrene	ug/L	ND	0.20	0.030	08/31/20 10:11	
Pyrene	ug/L	ND	0.10	0.052	08/31/20 10:11	
2-Fluorobiphenyl (S)	%	92	45-150		08/31/20 10:11	
Nitrobenzene-d5 (S)	%	113	57-164		08/31/20 10:11	
Terphenyl-d14 (S)	%	93	38-153		08/31/20 10:11	

LABORATORY CONTROL SAMPLE: 2985988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2.5	2.0	82	70-130	
2-Methylnaphthalene	ug/L	2.5	2.2	89	70-130	
Acenaphthene	ug/L	2.5	2.5	100	70-130	
Acenaphthylene	ug/L	2.5	2.6	103	70-130	
Anthracene	ug/L	2.5	2.6	104	70-130	
Benzo(a)anthracene	ug/L	2.5	2.7	106	70-130	
Benzo(a)pyrene	ug/L	2.5	2.6	105	70-130	
Benzo(b)fluoranthene	ug/L	2.5	2.8	110	70-130	
Benzo(g,h,i)perylene	ug/L	2.5	2.4	95	70-130	
Benzo(k)fluoranthene	ug/L	2.5	2.5	100	70-130	
Chrysene	ug/L	2.5	2.5	98	70-130	
Dibenz(a,h)anthracene	ug/L	2.5	2.5	100	70-130	
Fluoranthene	ug/L	2.5	2.7	106	70-130	
Fluorene	ug/L	2.5	2.5	101	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

LABORATORY CONTROL SAMPLE: 2985988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2.5	2.6	104	70-130	
Naphthalene	ug/L	2.5	2.3	94	70-130	
Phenanthrene	ug/L	2.5	2.4	97	70-130	
Pyrene	ug/L	2.5	2.7	106	70-130	
2-Fluorobiphenyl (S)	%			94	45-150	
Nitrobenzene-d5 (S)	%			109	57-164	
Terphenyl-d14 (S)	%			101	38-153	

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## QUALIFIERS

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER BRAMLETTE MGP J20080580

Pace Project No.: 92492867

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492867001	LC-SB-05_WG_20200822	EPA 3510C	563004	EPA 8270E	563022
92492867002	LC-SB-09_WG_20200822	EPA 3510C	563004	EPA 8270E	563022
92492867001	LC-SB-05_WG_20200822	EPA 3511	563110	EPA 8270E by SIM	563304
92492867002	LC-SB-09_WG_20200822	EPA 3511	563110	EPA 8270E by SIM	563304
92492867001	LC-SB-05_WG_20200822	EPA 8260D	563665		
92492867002	LC-SB-09_WG_20200822	EPA 8260D	563665		
92492867003	TRIP BLANK	EPA 8260D	563324		

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Document Name: <b>Sample Condition Upon Receipt(SCUR)</b>	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition  
Upon Receipt

Client Name:  
*Synterra*

Project #: **WO# : 92492867**



Courier:  
 Commercial  Pace  Fed Ex  UPS  USPS  Client  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No    Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *SG*  
*8.27.20*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  
 IR Gun ID: *931001*    Type of Ice:  Wet  Blue  None

Cooler Temp (°C): *1.9*    Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *1.9*

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>WT</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY \_\_\_\_\_ Field Data Required?  Yes  No

Lot ID of split containers: \_\_\_\_\_

CLIENT NOTIFICATION/RESOLUTION \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.06**

Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority:  
 Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

**WO# : 92492867**

PM: KLH1

Due Date: 09/03/20

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG5H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																3		3												
2																3		3												
3																2														
4																														
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7																														
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10																														
11																														
12																														

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



September 10, 2020

Program Manager  
Duke Energy  
13339 Hagers Ferry Road  
Bldg. 7405 MG30A2  
Huntersville, NC 28078

RE: Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring  
kevin.herring@pacelabs.com  
1(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Tom King  
Amber Lipsky  
Program Manager, Duke Energy  
Mike Mastbaum  
Todd Plating, Synterra  
Rick Powell  
B. Russo  
Heather Smith



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

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### **Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92493401001	LC-SB-12-WG-20200829	Water	08/29/20 19:00	09/01/20 11:47
92493401002	LC-SB-03-WG-20200828	Water	08/28/20 17:00	09/01/20 11:47
92493401003	LC-SB-10-WG-20200829	Water	08/29/20 16:15	09/01/20 11:47
92493401004	TRIP BLANK	Water	09/01/20 00:00	09/01/20 11:47

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92493401001	LC-SB-12-WG-20200829	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	BPJ	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92493401002	LC-SB-03-WG-20200828	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	BPJ	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92493401003	LC-SB-10-WG-20200829	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	BPJ	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92493401004	TRIP BLANK	EPA 8260D	CL	62	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92493401001</b>	<b>LC-SB-12-WG-20200829</b>					
EPA 8270E by SIM	Acenaphthene	0.11J	ug/L	0.50	09/04/20 13:32	
EPA 8270E by SIM	Anthracene	0.037J	ug/L	0.050	09/04/20 13:32	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.023J	ug/L	0.050	09/04/20 13:32	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.023J	ug/L	0.20	09/04/20 13:32	
EPA 8270E by SIM	Fluoranthene	0.082J	ug/L	0.30	09/04/20 13:32	L1
EPA 8270E by SIM	Fluorene	0.085J	ug/L	0.31	09/04/20 13:32	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.015J	ug/L	0.050	09/04/20 13:32	
EPA 8270E by SIM	1-Methylnaphthalene	0.13J	ug/L	0.80	09/04/20 13:32	
EPA 8270E by SIM	2-Methylnaphthalene	0.18J	ug/L	0.80	09/04/20 13:32	
EPA 8270E by SIM	Naphthalene	0.12J	ug/L	1.5	09/04/20 13:32	B
EPA 8270E by SIM	Phenanthrene	0.16J	ug/L	0.20	09/04/20 13:32	
EPA 8270E by SIM	Pyrene	0.14	ug/L	0.10	09/04/20 13:32	L1
<b>92493401002</b>	<b>LC-SB-03-WG-20200828</b>					
EPA 8270E by SIM	Acenaphthene	0.42J	ug/L	0.50	09/04/20 13:54	
EPA 8270E by SIM	Anthracene	0.055	ug/L	0.050	09/04/20 13:54	
EPA 8270E by SIM	Fluoranthene	0.068J	ug/L	0.30	09/04/20 13:54	L1
EPA 8270E by SIM	Fluorene	0.27J	ug/L	0.31	09/04/20 13:54	
EPA 8270E by SIM	1-Methylnaphthalene	0.60J	ug/L	0.80	09/04/20 13:54	
EPA 8270E by SIM	2-Methylnaphthalene	1.0	ug/L	0.80	09/04/20 13:54	
EPA 8270E by SIM	Naphthalene	0.31J	ug/L	1.5	09/04/20 13:54	
EPA 8270E by SIM	Phenanthrene	0.42	ug/L	0.20	09/04/20 13:54	
EPA 8270E by SIM	Pyrene	0.11	ug/L	0.10	09/04/20 13:54	L1
EPA 8260D	Naphthalene	0.51J	ug/L	1.0	09/04/20 17:48	
<b>92493401003</b>	<b>LC-SB-10-WG-20200829</b>					
EPA 8270E	Dibenzofuran	13.7	ug/L	10.0	09/04/20 16:28	
EPA 8270E by SIM	Acenaphthene	25.0	ug/L	2.5	09/08/20 13:11	
EPA 8270E by SIM	Acenaphthylene	7.1	ug/L	0.50	09/04/20 14:15	
EPA 8270E by SIM	Anthracene	7.9	ug/L	0.050	09/04/20 14:15	
EPA 8270E by SIM	Benzo(a)anthracene	1.8	ug/L	0.050	09/04/20 14:15	L1
EPA 8270E by SIM	Benzo(a)pyrene	1.3	ug/L	0.10	09/04/20 14:15	L1
EPA 8270E by SIM	Benzo(b)fluoranthene	1.3	ug/L	0.050	09/04/20 14:15	
EPA 8270E by SIM	Benzo(g,h,i)perylene	0.65	ug/L	0.20	09/04/20 14:15	
EPA 8270E by SIM	Benzo(k)fluoranthene	0.56	ug/L	0.20	09/04/20 14:15	
EPA 8270E by SIM	Chrysene	1.5	ug/L	0.10	09/04/20 14:15	
EPA 8270E by SIM	Dibenz(a,h)anthracene	0.16	ug/L	0.15	09/04/20 14:15	
EPA 8270E by SIM	Fluoranthene	9.4	ug/L	0.30	09/04/20 14:15	L1
EPA 8270E by SIM	Fluorene	24.7	ug/L	1.6	09/08/20 13:11	
EPA 8270E by SIM	Indeno(1,2,3-cd)pyrene	0.57	ug/L	0.050	09/04/20 14:15	
EPA 8270E by SIM	1-Methylnaphthalene	25.8	ug/L	4.0	09/08/20 13:11	
EPA 8270E by SIM	2-Methylnaphthalene	33.7	ug/L	4.0	09/08/20 13:11	
EPA 8270E by SIM	Naphthalene	55.2	ug/L	7.5	09/08/20 13:11	
EPA 8270E by SIM	Phenanthrene	33.5	ug/L	1.0	09/08/20 13:11	
EPA 8270E by SIM	Pyrene	6.9	ug/L	0.10	09/04/20 14:15	L1
EPA 8260D	Benzene	1.3	ug/L	1.0	09/04/20 18:06	
EPA 8260D	Chlorobenzene	0.56J	ug/L	1.0	09/04/20 18:06	
EPA 8260D	1,4-Dichlorobenzene	0.36J	ug/L	1.0	09/04/20 18:06	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92493401003</b>	<b>LC-SB-10-WG-20200829</b>					
EPA 8260D	Ethylbenzene	1.2	ug/L	1.0	09/04/20 18:06	
EPA 8260D	Naphthalene	73.5	ug/L	1.0	09/04/20 18:06	
EPA 8260D	Toluene	0.48J	ug/L	1.0	09/04/20 18:06	
EPA 8260D	m&p-Xylene	1.2J	ug/L	2.0	09/04/20 18:06	
EPA 8260D	o-Xylene	0.67J	ug/L	1.0	09/04/20 18:06	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

---

**Method:** EPA 8270E

**Description:** 8270E RVE

**Client:** Duke Energy

**Date:** September 10, 2020

### General Information:

3 samples were analyzed for EPA 8270E by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 564505

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- LC-SB-03-WG-20200828 (Lab ID: 92493401002)
  - 2,2'-Oxybis(1-chloropropane)
- LC-SB-10-WG-20200829 (Lab ID: 92493401003)
  - 2,2'-Oxybis(1-chloropropane)
- LC-SB-12-WG-20200829 (Lab ID: 92493401001)
  - 2,2'-Oxybis(1-chloropropane)
- MS (Lab ID: 2992359)
  - 2,2'-Oxybis(1-chloropropane)
- MSD (Lab ID: 2992360)
  - 2,2'-Oxybis(1-chloropropane)

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 564505

S0: Surrogate recovery outside laboratory control limits.

- LC-SB-03-WG-20200828 (Lab ID: 92493401002)
  - 2,4,6-Tribromophenol (S)
  - 2-Fluorophenol (S)
  - Phenol-d6 (S)
- LC-SB-10-WG-20200829 (Lab ID: 92493401003)
  - 2,4,6-Tribromophenol (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

---

**Method:** EPA 8270E

**Description:** 8270E RVE

**Client:** Duke Energy

**Date:** September 10, 2020

QC Batch: 564505

S0: Surrogate recovery outside laboratory control limits.

- 2-Fluorophenol (S)
- Phenol-d6 (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 564505

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92484369020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2992359)
  - 2,4-Dinitrophenol
  - Benzoic Acid
- MSD (Lab ID: 2992360)
  - 2,4-Dinitrophenol
  - Benzoic Acid

**Additional Comments:**

Analyte Comments:

QC Batch: 564505

1g: Re-extraction conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

- LC-SB-03-WG-20200828 (Lab ID: 92493401002)
  - Nitrobenzene-d5 (S)
- LC-SB-10-WG-20200829 (Lab ID: 92493401003)
  - Nitrobenzene-d5 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

---

**Method:** EPA 8270E by SIM

**Description:** 8270E Low Volume PAH SIM

**Client:** Duke Energy

**Date:** September 10, 2020

**General Information:**

3 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 564457

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 2992243)
- Nitrobenzene-d5 (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 564457

B: Analyte was detected in the associated method blank.

- BLANK for HBN 564457 [OEXT/662 (Lab ID: 2992241)
- Naphthalene

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 564457

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2992242)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

---

**Method:** EPA 8270E by SIM

**Description:** 8270E Low Volume PAH SIM

**Client:** Duke Energy

**Date:** September 10, 2020

QC Batch: 564457

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- Fluoranthene
- Pyrene

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 564457

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92493297005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2992243)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Fluoranthene
  - Pyrene
- MSD (Lab ID: 2992244)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Fluoranthene
  - Pyrene

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2992243)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(b)fluoranthene
  - Benzo(k)fluoranthene
  - Chrysene
  - Fluorene

### Additional Comments:

Analyte Comments:

QC Batch: 564457

2g: Sample re-extracted outside method hold time. Results of re-analysis confirmed original analysis performed within hold time.

- LC-SB-03-WG-20200828 (Lab ID: 92493401002)
  - Nitrobenzene-d5 (S)
- LC-SB-10-WG-20200829 (Lab ID: 92493401003)
  - Nitrobenzene-d5 (S)
- LC-SB-12-WG-20200829 (Lab ID: 92493401001)
  - Nitrobenzene-d5 (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** September 10, 2020

### General Information:

4 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 564159

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- BLANK (Lab ID: 2990700)
  - Bromoform
  - Dibromomethane
  - Trichlorofluoromethane
- LCS (Lab ID: 2990701)
  - Bromoform
  - Dibromomethane
  - Trichlorofluoromethane
- MS (Lab ID: 2990702)
  - Bromoform
- MSD (Lab ID: 2990703)
  - Bromoform
- TRIP BLANK (Lab ID: 92493401004)
  - Bromoform
  - Dibromomethane
  - Trichlorofluoromethane

QC Batch: 564607

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- MS (Lab ID: 2992751)
  - Dibromomethane
  - Trichlorofluoromethane
- MSD (Lab ID: 2992752)
  - Dibromomethane
  - Trichlorofluoromethane

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

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**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** September 10, 2020

QC Batch: 564607

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 2992751)
  - Bromomethane
- MSD (Lab ID: 2992752)
  - Bromomethane

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Sample: LC-SB-12-WG-20200829 Lab ID: 92493401001 Collected: 08/29/20 19:00 Received: 09/01/20 11:47 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 15:36	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	09/04/20 07:13	09/04/20 15:36	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	09/04/20 07:13	09/04/20 15:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 15:36	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	09/04/20 07:13	09/04/20 15:36	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	09/04/20 07:13	09/04/20 15:36	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 15:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 15:36	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	09/04/20 07:13	09/04/20 15:36	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 15:36	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 15:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	09/04/20 07:13	09/04/20 15:36	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	09/04/20 07:13	09/04/20 15:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 15:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 15:36	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	09/04/20 07:13	09/04/20 15:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	09/04/20 07:13	09/04/20 15:36	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 15:36	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	09/04/20 07:13	09/04/20 15:36	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 15:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 15:36	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	09/04/20 07:13	09/04/20 15:36	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 15:36	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	09/04/20 07:13	09/04/20 15:36	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 15:36	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	09/04/20 07:13	09/04/20 15:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	09/04/20 07:13	09/04/20 15:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 15:36	108-60-1	v1

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

**Sample:** LC-SB-12-WG-20200829    **Lab ID:** 92493401001    Collected: 08/29/20 19:00    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 15:36	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 15:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 15:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 15:36	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	77	%	13-130		1	09/04/20 07:13	09/04/20 15:36	4165-60-0	
2-Fluorobiphenyl (S)	63	%	13-130		1	09/04/20 07:13	09/04/20 15:36	321-60-8	
Terphenyl-d14 (S)	108	%	25-130		1	09/04/20 07:13	09/04/20 15:36	1718-51-0	
Phenol-d6 (S)	38	%	10-130		1	09/04/20 07:13	09/04/20 15:36	13127-88-3	
2-Fluorophenol (S)	48	%	10-130		1	09/04/20 07:13	09/04/20 15:36	367-12-4	
2,4,6-Tribromophenol (S)	71	%	10-137		1	09/04/20 07:13	09/04/20 15:36	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>0.11J</b>	ug/L	0.50	0.0084	1	09/03/20 22:40	09/04/20 13:32	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	09/03/20 22:40	09/04/20 13:32	208-96-8	
Anthracene	<b>0.037J</b>	ug/L	0.050	0.014	1	09/03/20 22:40	09/04/20 13:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	09/03/20 22:40	09/04/20 13:32	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	09/03/20 22:40	09/04/20 13:32	50-32-8	L1
Benzo(b)fluoranthene	<b>0.023J</b>	ug/L	0.050	0.017	1	09/03/20 22:40	09/04/20 13:32	205-99-2	
Benzo(g,h,i)perylene	<b>0.023J</b>	ug/L	0.20	0.013	1	09/03/20 22:40	09/04/20 13:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	09/03/20 22:40	09/04/20 13:32	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	09/03/20 22:40	09/04/20 13:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	09/03/20 22:40	09/04/20 13:32	53-70-3	
Fluoranthene	<b>0.082J</b>	ug/L	0.30	0.015	1	09/03/20 22:40	09/04/20 13:32	206-44-0	L1
Fluorene	<b>0.085J</b>	ug/L	0.31	0.012	1	09/03/20 22:40	09/04/20 13:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.015J</b>	ug/L	0.050	0.011	1	09/03/20 22:40	09/04/20 13:32	193-39-5	
1-Methylnaphthalene	<b>0.13J</b>	ug/L	0.80	0.0074	1	09/03/20 22:40	09/04/20 13:32	90-12-0	
2-Methylnaphthalene	<b>0.18J</b>	ug/L	0.80	0.023	1	09/03/20 22:40	09/04/20 13:32	91-57-6	
Naphthalene	<b>0.12J</b>	ug/L	1.5	0.015	1	09/03/20 22:40	09/04/20 13:32	91-20-3	B
Phenanthrene	<b>0.16J</b>	ug/L	0.20	0.030	1	09/03/20 22:40	09/04/20 13:32	85-01-8	
Pyrene	<b>0.14</b>	ug/L	0.10	0.052	1	09/03/20 22:40	09/04/20 13:32	129-00-0	L1
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	156	%	57-164		1	09/03/20 22:40	09/04/20 13:32	4165-60-0	2g
2-Fluorobiphenyl (S)	140	%	45-150		1	09/03/20 22:40	09/04/20 13:32	321-60-8	
Terphenyl-d14 (S)	143	%	38-153		1	09/03/20 22:40	09/04/20 13:32	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		09/04/20 17:30	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		09/04/20 17:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		09/04/20 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		09/04/20 17:30	75-27-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

**Sample: LC-SB-12-WG-20200829**    **Lab ID: 92493401001**    Collected: 08/29/20 19:00    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		09/04/20 17:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		09/04/20 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		09/04/20 17:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		09/04/20 17:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/04/20 17:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		09/04/20 17:30	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		09/04/20 17:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		09/04/20 17:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 17:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 17:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		09/04/20 17:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		09/04/20 17:30	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		09/04/20 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		09/04/20 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		09/04/20 17:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		09/04/20 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		09/04/20 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		09/04/20 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		09/04/20 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		09/04/20 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		09/04/20 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		09/04/20 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		09/04/20 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/04/20 17:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		09/04/20 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		09/04/20 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		09/04/20 17:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		09/04/20 17:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		09/04/20 17:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		09/04/20 17:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		09/04/20 17:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		09/04/20 17:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		09/04/20 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		09/04/20 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		09/04/20 17:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		09/04/20 17:30	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		09/04/20 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		09/04/20 17:30	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		09/04/20 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		09/04/20 17:30	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		09/04/20 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		09/04/20 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		09/04/20 17:30	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

**Sample: LC-SB-12-WG-20200829**    **Lab ID: 92493401001**    Collected: 08/29/20 19:00    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		09/04/20 17:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		09/04/20 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		09/04/20 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		09/04/20 17:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		09/04/20 17:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		09/04/20 17:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		09/04/20 17:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		09/04/20 17:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		09/04/20 17:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		09/04/20 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		09/04/20 17:30	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		09/04/20 17:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

**Sample: LC-SB-03-WG-20200828**    **Lab ID: 92493401002**    Collected: 08/28/20 17:00    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 16:02	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:02	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:02	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:02	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	57	%	13-130		1	09/04/20 07:13	09/04/20 16:02	4165-60-0	1g
2-Fluorobiphenyl (S)	49	%	13-130		1	09/04/20 07:13	09/04/20 16:02	321-60-8	
Terphenyl-d14 (S)	100	%	25-130		1	09/04/20 07:13	09/04/20 16:02	1718-51-0	
Phenol-d6 (S)	3	%	10-130		1	09/04/20 07:13	09/04/20 16:02	13127-88-3	S0
2-Fluorophenol (S)	0	%	10-130		1	09/04/20 07:13	09/04/20 16:02	367-12-4	S0
2,4,6-Tribromophenol (S)	1	%	10-137		1	09/04/20 07:13	09/04/20 16:02	118-79-6	S0
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>0.42J</b>	ug/L	0.50	0.0084	1	09/03/20 22:40	09/04/20 13:54	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	09/03/20 22:40	09/04/20 13:54	208-96-8	
Anthracene	<b>0.055</b>	ug/L	0.050	0.014	1	09/03/20 22:40	09/04/20 13:54	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	09/03/20 22:40	09/04/20 13:54	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	09/03/20 22:40	09/04/20 13:54	50-32-8	L1
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	09/03/20 22:40	09/04/20 13:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	09/03/20 22:40	09/04/20 13:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	09/03/20 22:40	09/04/20 13:54	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	09/03/20 22:40	09/04/20 13:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	09/03/20 22:40	09/04/20 13:54	53-70-3	
Fluoranthene	<b>0.068J</b>	ug/L	0.30	0.015	1	09/03/20 22:40	09/04/20 13:54	206-44-0	L1
Fluorene	<b>0.27J</b>	ug/L	0.31	0.012	1	09/03/20 22:40	09/04/20 13:54	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	09/03/20 22:40	09/04/20 13:54	193-39-5	
1-Methylnaphthalene	<b>0.60J</b>	ug/L	0.80	0.0074	1	09/03/20 22:40	09/04/20 13:54	90-12-0	
2-Methylnaphthalene	<b>1.0</b>	ug/L	0.80	0.023	1	09/03/20 22:40	09/04/20 13:54	91-57-6	
Naphthalene	<b>0.31J</b>	ug/L	1.5	0.015	1	09/03/20 22:40	09/04/20 13:54	91-20-3	
Phenanthrene	<b>0.42</b>	ug/L	0.20	0.030	1	09/03/20 22:40	09/04/20 13:54	85-01-8	
Pyrene	<b>0.11</b>	ug/L	0.10	0.052	1	09/03/20 22:40	09/04/20 13:54	129-00-0	L1
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	155	%	57-164		1	09/03/20 22:40	09/04/20 13:54	4165-60-0	2g
2-Fluorobiphenyl (S)	139	%	45-150		1	09/03/20 22:40	09/04/20 13:54	321-60-8	
Terphenyl-d14 (S)	136	%	38-153		1	09/03/20 22:40	09/04/20 13:54	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		09/04/20 17:48	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		09/04/20 17:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		09/04/20 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		09/04/20 17:48	75-27-4	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Sample: LC-SB-03-WG-20200828 Lab ID: 92493401002 Collected: 08/28/20 17:00 Received: 09/01/20 11:47 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		09/04/20 17:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		09/04/20 17:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		09/04/20 17:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		09/04/20 17:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/04/20 17:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		09/04/20 17:48	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		09/04/20 17:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		09/04/20 17:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 17:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		09/04/20 17:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		09/04/20 17:48	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		09/04/20 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		09/04/20 17:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		09/04/20 17:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		09/04/20 17:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		09/04/20 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		09/04/20 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		09/04/20 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		09/04/20 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		09/04/20 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		09/04/20 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		09/04/20 17:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/04/20 17:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		09/04/20 17:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		09/04/20 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		09/04/20 17:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		09/04/20 17:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		09/04/20 17:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		09/04/20 17:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		09/04/20 17:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		09/04/20 17:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		09/04/20 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		09/04/20 17:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		09/04/20 17:48	1634-04-4	
Naphthalene	<b>0.51J</b>	ug/L	1.0	0.35	1		09/04/20 17:48	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		09/04/20 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		09/04/20 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		09/04/20 17:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		09/04/20 17:48	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		09/04/20 17:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		09/04/20 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 17:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		09/04/20 17:48	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

**Sample: LC-SB-03-WG-20200828**    **Lab ID: 92493401002**    Collected: 08/28/20 17:00    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		09/04/20 17:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		09/04/20 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		09/04/20 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		09/04/20 17:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		09/04/20 17:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		09/04/20 17:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		09/04/20 17:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		09/04/20 17:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		09/04/20 17:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/04/20 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		09/04/20 17:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		09/04/20 17:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

**Sample: LC-SB-10-WG-20200829**    **Lab ID: 92493401003**    Collected: 08/29/20 16:15    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E    Preparation Method: EPA 3510C						
Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:28	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	09/04/20 07:13	09/04/20 16:28	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	09/04/20 07:13	09/04/20 16:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 16:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	09/04/20 07:13	09/04/20 16:28	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	09/04/20 07:13	09/04/20 16:28	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 16:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 16:28	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	7005-72-3	
Dibenzofuran	<b>13.7</b>	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	09/04/20 07:13	09/04/20 16:28	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:28	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	09/04/20 07:13	09/04/20 16:28	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	09/04/20 07:13	09/04/20 16:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 16:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 16:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	09/04/20 07:13	09/04/20 16:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	09/04/20 07:13	09/04/20 16:28	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:28	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	09/04/20 07:13	09/04/20 16:28	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 16:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	09/04/20 07:13	09/04/20 16:28	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	09/04/20 07:13	09/04/20 16:28	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 16:28	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	09/04/20 07:13	09/04/20 16:28	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	09/04/20 07:13	09/04/20 16:28	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	09/04/20 07:13	09/04/20 16:28	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	09/04/20 07:13	09/04/20 16:28	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	09/04/20 07:13	09/04/20 16:28	108-60-1	v1

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

**Sample: LC-SB-10-WG-20200829**    **Lab ID: 92493401003**    Collected: 08/29/20 16:15    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	09/04/20 07:13	09/04/20 16:28	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	09/04/20 07:13	09/04/20 16:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	09/04/20 07:13	09/04/20 16:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	09/04/20 07:13	09/04/20 16:28	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	72	%	13-130		1	09/04/20 07:13	09/04/20 16:28	4165-60-0	1g
2-Fluorobiphenyl (S)	60	%	13-130		1	09/04/20 07:13	09/04/20 16:28	321-60-8	
Terphenyl-d14 (S)	103	%	25-130		1	09/04/20 07:13	09/04/20 16:28	1718-51-0	
Phenol-d6 (S)	3	%	10-130		1	09/04/20 07:13	09/04/20 16:28	13127-88-3	S0
2-Fluorophenol (S)	1	%	10-130		1	09/04/20 07:13	09/04/20 16:28	367-12-4	S0
2,4,6-Tribromophenol (S)	1	%	10-137		1	09/04/20 07:13	09/04/20 16:28	118-79-6	S0
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>25.0</b>	ug/L	2.5	0.042	5	09/03/20 22:40	09/08/20 13:11	83-32-9	
Acenaphthylene	<b>7.1</b>	ug/L	0.50	0.018	1	09/03/20 22:40	09/04/20 14:15	208-96-8	
Anthracene	<b>7.9</b>	ug/L	0.050	0.014	1	09/03/20 22:40	09/04/20 14:15	120-12-7	
Benzo(a)anthracene	<b>1.8</b>	ug/L	0.050	0.046	1	09/03/20 22:40	09/04/20 14:15	56-55-3	L1
Benzo(a)pyrene	<b>1.3</b>	ug/L	0.10	0.0090	1	09/03/20 22:40	09/04/20 14:15	50-32-8	L1
Benzo(b)fluoranthene	<b>1.3</b>	ug/L	0.050	0.017	1	09/03/20 22:40	09/04/20 14:15	205-99-2	
Benzo(g,h,i)perylene	<b>0.65</b>	ug/L	0.20	0.013	1	09/03/20 22:40	09/04/20 14:15	191-24-2	
Benzo(k)fluoranthene	<b>0.56</b>	ug/L	0.20	0.014	1	09/03/20 22:40	09/04/20 14:15	207-08-9	
Chrysene	<b>1.5</b>	ug/L	0.10	0.032	1	09/03/20 22:40	09/04/20 14:15	218-01-9	
Dibenz(a,h)anthracene	<b>0.16</b>	ug/L	0.15	0.011	1	09/03/20 22:40	09/04/20 14:15	53-70-3	
Fluoranthene	<b>9.4</b>	ug/L	0.30	0.015	1	09/03/20 22:40	09/04/20 14:15	206-44-0	L1
Fluorene	<b>24.7</b>	ug/L	1.6	0.060	5	09/03/20 22:40	09/08/20 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>0.57</b>	ug/L	0.050	0.011	1	09/03/20 22:40	09/04/20 14:15	193-39-5	
1-Methylnaphthalene	<b>25.8</b>	ug/L	4.0	0.037	5	09/03/20 22:40	09/08/20 13:11	90-12-0	
2-Methylnaphthalene	<b>33.7</b>	ug/L	4.0	0.11	5	09/03/20 22:40	09/08/20 13:11	91-57-6	
Naphthalene	<b>55.2</b>	ug/L	7.5	0.076	5	09/03/20 22:40	09/08/20 13:11	91-20-3	
Phenanthrene	<b>33.5</b>	ug/L	1.0	0.15	5	09/03/20 22:40	09/08/20 13:11	85-01-8	
Pyrene	<b>6.9</b>	ug/L	0.10	0.052	1	09/03/20 22:40	09/04/20 14:15	129-00-0	L1
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	161	%	57-164		1	09/03/20 22:40	09/04/20 14:15	4165-60-0	2g
2-Fluorobiphenyl (S)	134	%	45-150		1	09/03/20 22:40	09/04/20 14:15	321-60-8	
Terphenyl-d14 (S)	135	%	38-153		1	09/03/20 22:40	09/04/20 14:15	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		09/04/20 18:06	67-64-1	
Benzene	<b>1.3</b>	ug/L	1.0	0.15	1		09/04/20 18:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		09/04/20 18:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		09/04/20 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		09/04/20 18:06	75-27-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Sample: LC-SB-10-WG-20200829 Lab ID: 92493401003 Collected: 08/29/20 16:15 Received: 09/01/20 11:47 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		09/04/20 18:06	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		09/04/20 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		09/04/20 18:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		09/04/20 18:06	56-23-5	
Chlorobenzene	<b>0.56J</b>	ug/L	1.0	0.23	1		09/04/20 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		09/04/20 18:06	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		09/04/20 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		09/04/20 18:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 18:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/04/20 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		09/04/20 18:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		09/04/20 18:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		09/04/20 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		09/04/20 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 18:06	541-73-1	
1,4-Dichlorobenzene	<b>0.36J</b>	ug/L	1.0	0.26	1		09/04/20 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		09/04/20 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		09/04/20 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		09/04/20 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		09/04/20 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		09/04/20 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		09/04/20 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		09/04/20 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		09/04/20 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/04/20 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		09/04/20 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		09/04/20 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		09/04/20 18:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		09/04/20 18:06	108-20-3	
Ethylbenzene	<b>1.2</b>	ug/L	1.0	0.26	1		09/04/20 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		09/04/20 18:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		09/04/20 18:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		09/04/20 18:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		09/04/20 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		09/04/20 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		09/04/20 18:06	1634-04-4	
Naphthalene	<b>73.5</b>	ug/L	1.0	0.35	1		09/04/20 18:06	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		09/04/20 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		09/04/20 18:06	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		09/04/20 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		09/04/20 18:06	127-18-4	
Toluene	<b>0.48J</b>	ug/L	1.0	0.24	1		09/04/20 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		09/04/20 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		09/04/20 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		09/04/20 18:06	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

**Sample: LC-SB-10-WG-20200829**    **Lab ID: 92493401003**    Collected: 08/29/20 16:15    Received: 09/01/20 11:47    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		09/04/20 18:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		09/04/20 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		09/04/20 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		09/04/20 18:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		09/04/20 18:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		09/04/20 18:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		09/04/20 18:06	1330-20-7	
m&p-Xylene	<b>1.2J</b>	ug/L	2.0	0.41	1		09/04/20 18:06	179601-23-1	
o-Xylene	<b>0.67J</b>	ug/L	1.0	0.22	1		09/04/20 18:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/04/20 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		09/04/20 18:06	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		09/04/20 18:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

**Sample: TRIP BLANK**      **Lab ID: 92493401004**      Collected: 09/01/20 00:00      Received: 09/01/20 11:47      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		09/03/20 17:37	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		09/03/20 17:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		09/03/20 17:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		09/03/20 17:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		09/03/20 17:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		09/03/20 17:37	75-25-2	IK
Bromomethane	ND	ug/L	2.0	0.62	1		09/03/20 17:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		09/03/20 17:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		09/03/20 17:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		09/03/20 17:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		09/03/20 17:37	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		09/03/20 17:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		09/03/20 17:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/03/20 17:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		09/03/20 17:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		09/03/20 17:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		09/03/20 17:37	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		09/03/20 17:37	74-95-3	IK
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		09/03/20 17:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		09/03/20 17:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		09/03/20 17:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		09/03/20 17:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		09/03/20 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		09/03/20 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		09/03/20 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		09/03/20 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		09/03/20 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		09/03/20 17:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		09/03/20 17:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		09/03/20 17:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		09/03/20 17:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		09/03/20 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		09/03/20 17:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		09/03/20 17:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		09/03/20 17:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		09/03/20 17:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		09/03/20 17:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		09/03/20 17:37	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		09/03/20 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		09/03/20 17:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		09/03/20 17:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		09/03/20 17:37	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		09/03/20 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		09/03/20 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		09/03/20 17:37	79-34-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

Sample: TRIP BLANK      Lab ID: 92493401004      Collected: 09/01/20 00:00      Received: 09/01/20 11:47      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Tetrachloroethene	ND	ug/L	1.0	0.16	1		09/03/20 17:37	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		09/03/20 17:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		09/03/20 17:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		09/03/20 17:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		09/03/20 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		09/03/20 17:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		09/03/20 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		09/03/20 17:37	75-69-4	IK
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		09/03/20 17:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		09/03/20 17:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		09/03/20 17:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		09/03/20 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		09/03/20 17:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		09/03/20 17:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/03/20 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		09/03/20 17:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		09/03/20 17:37	2037-26-5	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

QC Batch: 564159 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92493401004

METHOD BLANK: 2990700 Matrix: Water

Associated Lab Samples: 92493401004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	09/03/20 15:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	09/03/20 15:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	09/03/20 15:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	09/03/20 15:13	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	09/03/20 15:13	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	09/03/20 15:13	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	09/03/20 15:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	09/03/20 15:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	09/03/20 15:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	09/03/20 15:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	09/03/20 15:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	09/03/20 15:13	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	09/03/20 15:13	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	09/03/20 15:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	09/03/20 15:13	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	09/03/20 15:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	09/03/20 15:13	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	09/03/20 15:13	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	09/03/20 15:13	
2-Chlorotoluene	ug/L	ND	1.0	0.20	09/03/20 15:13	
2-Hexanone	ug/L	ND	5.0	0.57	09/03/20 15:13	
4-Chlorotoluene	ug/L	ND	1.0	0.20	09/03/20 15:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	09/03/20 15:13	
Acetone	ug/L	ND	25.0	6.2	09/03/20 15:13	
Benzene	ug/L	ND	1.0	0.15	09/03/20 15:13	
Bromobenzene	ug/L	ND	1.0	0.22	09/03/20 15:13	
Bromochloromethane	ug/L	ND	1.0	0.34	09/03/20 15:13	
Bromodichloromethane	ug/L	ND	1.0	0.26	09/03/20 15:13	
Bromoform	ug/L	ND	1.0	0.62	09/03/20 15:13	IK
Bromomethane	ug/L	ND	2.0	0.62	09/03/20 15:13	
Carbon tetrachloride	ug/L	ND	1.0	0.22	09/03/20 15:13	
Chlorobenzene	ug/L	ND	1.0	0.23	09/03/20 15:13	
Chloroethane	ug/L	ND	1.0	0.49	09/03/20 15:13	
Chloroform	ug/L	ND	5.0	2.3	09/03/20 15:13	
Chloromethane	ug/L	ND	1.0	0.39	09/03/20 15:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	09/03/20 15:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	09/03/20 15:13	
Dibromochloromethane	ug/L	ND	1.0	0.41	09/03/20 15:13	
Dibromomethane	ug/L	ND	1.0	0.46	09/03/20 15:13	IK
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	09/03/20 15:13	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

METHOD BLANK: 2990700

Matrix: Water

Associated Lab Samples: 92493401004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	09/03/20 15:13	
Ethylbenzene	ug/L	ND	1.0	0.26	09/03/20 15:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	09/03/20 15:13	
m&p-Xylene	ug/L	ND	2.0	0.41	09/03/20 15:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	09/03/20 15:13	
Methylene Chloride	ug/L	ND	5.0	3.7	09/03/20 15:13	
Naphthalene	ug/L	ND	1.0	0.35	09/03/20 15:13	
o-Xylene	ug/L	ND	1.0	0.22	09/03/20 15:13	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	09/03/20 15:13	
Styrene	ug/L	ND	1.0	0.27	09/03/20 15:13	
Tetrachloroethene	ug/L	ND	1.0	0.16	09/03/20 15:13	
Toluene	ug/L	ND	1.0	0.24	09/03/20 15:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	09/03/20 15:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	09/03/20 15:13	
Trichloroethene	ug/L	ND	1.0	0.22	09/03/20 15:13	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	09/03/20 15:13	IK
Vinyl acetate	ug/L	ND	2.0	1.4	09/03/20 15:13	
Vinyl chloride	ug/L	ND	1.0	0.24	09/03/20 15:13	
Xylene (Total)	ug/L	ND	1.0	0.63	09/03/20 15:13	
1,2-Dichloroethane-d4 (S)	%	107	70-130		09/03/20 15:13	
4-Bromofluorobenzene (S)	%	99	70-130		09/03/20 15:13	
Toluene-d8 (S)	%	98	70-130		09/03/20 15:13	

LABORATORY CONTROL SAMPLE: 2990701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.0	108	70-130	
1,1,1-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.2	112	70-130	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethene	ug/L	50	53.8	108	70-130	
1,1-Dichloropropene	ug/L	50	48.1	96	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.0	110	70-130	
1,2,3-Trichloropropane	ug/L	50	57.4	115	70-130	
1,2,4-Trichlorobenzene	ug/L	50	58.3	117	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.2	118	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	45.2	90	70-130	
1,2-Dichloropropane	ug/L	50	48.2	96	70-130	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,3-Dichloropropane	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	53.9	108	70-130	
2,2-Dichloropropane	ug/L	50	56.0	112	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

LABORATORY CONTROL SAMPLE: 2990701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	94.4	94	70-130	
2-Chlorotoluene	ug/L	50	50.8	102	70-130	
2-Hexanone	ug/L	100	116	116	70-130	
4-Chlorotoluene	ug/L	50	51.5	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-130	
Acetone	ug/L	100	107	107	70-130	
Benzene	ug/L	50	50.3	101	70-130	
Bromobenzene	ug/L	50	50.0	100	70-130	
Bromochloromethane	ug/L	50	58.5	117	70-130	
Bromodichloromethane	ug/L	50	47.9	96	70-130	
Bromoform	ug/L	50	46.3	93	70-130	IK
Bromomethane	ug/L	50	50.1	100	70-130	
Carbon tetrachloride	ug/L	50	52.0	104	70-130	
Chlorobenzene	ug/L	50	51.3	103	70-130	
Chloroethane	ug/L	50	39.1	78	70-130	
Chloroform	ug/L	50	49.8	100	70-130	
Chloromethane	ug/L	50	47.7	95	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.3	109	70-130	
Dibromochloromethane	ug/L	50	53.4	107	70-130	
Dibromomethane	ug/L	50	46.7	93	70-130	IK
Dichlorodifluoromethane	ug/L	50	46.2	92	70-130	
Diisopropyl ether	ug/L	50	47.9	96	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.6	121	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	46.2	92	70-130	
Methylene Chloride	ug/L	50	51.4	103	70-130	
Naphthalene	ug/L	50	53.3	107	70-130	
o-Xylene	ug/L	50	50.6	101	70-130	
p-Isopropyltoluene	ug/L	50	51.9	104	70-130	
Styrene	ug/L	50	55.9	112	70-130	
Tetrachloroethene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	52.6	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.4	107	70-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	52.4	105	70-130	IK
Vinyl acetate	ug/L	100	104	104	70-130	
Vinyl chloride	ug/L	50	46.4	93	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			84	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2990702		2990703		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92493712002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	<1.0	20	20	24.7	24.0	124	120	73-134	3	30		
1,1,1-Trichloroethane	ug/L	<1.0	20	20	24.0	24.5	120	123	82-143	2	30		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20	21.7	22.0	109	110	70-136	1	30		
1,1,2-Trichloroethane	ug/L	<1.0	20	20	23.0	22.7	115	113	70-135	1	30		
1,1-Dichloroethane	ug/L	<1.0	20	20	22.7	23.0	114	115	70-139	1	30		
1,1-Dichloroethene	ug/L	<1.0	20	20	24.1	24.0	121	120	70-154	1	30		
1,1-Dichloropropene	ug/L	<1.0	20	20	24.3	24.7	122	123	70-149	1	30		
1,2,3-Trichlorobenzene	ug/L	<1.0	20	20	24.8	23.1	124	115	70-135	7	30		
1,2,3-Trichloropropane	ug/L	<1.0	20	20	22.3	22.0	111	110	71-137	1	30		
1,2,4-Trichlorobenzene	ug/L	<1.0	20	20	24.6	24.9	123	124	73-140	1	30		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	20	20	21.5	22.1	107	110	65-134	3	30		
1,2-Dichlorobenzene	ug/L	<1.0	20	20	22.9	23.1	114	116	70-133	1	30		
1,2-Dichloroethane	ug/L	<1.0	20	20	21.1	21.6	105	108	70-137	2	30		
1,2-Dichloropropane	ug/L	<1.0	20	20	22.4	23.5	112	118	70-140	5	30		
1,3-Dichlorobenzene	ug/L	<1.0	20	20	23.8	23.2	119	116	70-135	2	30		
1,3-Dichloropropane	ug/L	<1.0	20	20	22.5	23.2	112	116	70-143	3	30		
1,4-Dichlorobenzene	ug/L	<1.0	20	20	23.3	23.5	116	118	70-133	1	30		
2,2-Dichloropropane	ug/L	<1.0	20	20	25.4	25.5	127	127	61-148	0	30		
2-Butanone (MEK)	ug/L	9.5	40	40	55.1	55.5	114	115	60-139	1	30		
2-Chlorotoluene	ug/L	<1.0	20	20	23.8	24.0	119	120	70-144	1	30		
2-Hexanone	ug/L	<5.0	40	40	45.3	44.9	112	111	65-138	1	30		
4-Chlorotoluene	ug/L	<1.0	20	20	23.0	23.3	115	116	70-137	1	30		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	40	40	43.0	42.9	107	107	65-135	0	30		
Acetone	ug/L	32.4	40	40	72.3	73.3	100	102	60-148	1	30		
Benzene	ug/L	0.45J	20	20	23.2	23.7	114	116	70-151	2	30		
Bromobenzene	ug/L	<1.0	20	20	23.2	23.6	116	118	70-136	2	30		
Bromochloromethane	ug/L	<1.0	20	20	22.5	22.8	112	114	70-141	1	30		
Bromodichloromethane	ug/L	<1.0	20	20	21.1	21.7	105	108	70-138	3	30		
Bromoform	ug/L	<1.0	20	20	22.8	22.1	114	111	63-130	3	30	IK	
Bromomethane	ug/L	<2.0	20	20	22.7	25.7	113	128	15-152	12	30	IH	
Carbon tetrachloride	ug/L	<1.0	20	20	26.3	26.2	132	131	70-143	1	30		
Chlorobenzene	ug/L	<1.0	20	20	23.3	23.4	117	117	70-138	0	30		
Chloroethane	ug/L	<1.0	20	20	21.0	20.7	105	103	52-163	2	30		
Chloroform	ug/L	<5.0	20	20	22.3	22.8	111	114	70-139	2	30		
Chloromethane	ug/L	<1.0	20	20	19.0	18.4	95	92	41-139	3	30		
cis-1,2-Dichloroethene	ug/L	<1.0	20	20	22.3	22.4	112	112	70-141	0	30		
cis-1,3-Dichloropropene	ug/L	<1.0	20	20	24.3	24.4	121	122	70-137	0	30		
Dibromochloromethane	ug/L	<1.0	20	20	24.2	25.0	121	125	70-134	3	30		
Dibromomethane	ug/L	<1.0	20	20	22.0	23.5	110	117	70-138	6	30		
Dichlorodifluoromethane	ug/L	<1.0	20	20	21.1	21.6	106	108	47-155	2	30		
Diisopropyl ether	ug/L	<1.0	20	20	20.7	20.8	104	104	63-144	0	30		
Ethylbenzene	ug/L	<1.0	20	20	22.7	23.6	114	118	66-153	4	30		
Hexachloro-1,3-butadiene	ug/L	<1.0	20	20	27.3	27.2	136	136	65-149	0	30		
m&p-Xylene	ug/L	<2.0	40	40	46.3	47.6	116	119	69-152	3	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2990702		2990703		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92493712002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Methyl-tert-butyl ether	ug/L	<1.0	20	20	21.1	21.6	105	108	54-156	2	30		
Methylene Chloride	ug/L	<5.0	20	20	21.3	21.6	107	108	42-159	1	30		
Naphthalene	ug/L	0.53J	20	20	23.5	23.2	115	113	61-148	2	30		
o-Xylene	ug/L	<1.0	20	20	22.2	24.1	111	120	70-148	8	30		
p-Isopropyltoluene	ug/L	<1.0	20	20	24.1	24.1	120	120	70-146	0	30		
Styrene	ug/L	<1.0	20	20	23.1	23.9	116	119	70-135	3	30		
Tetrachloroethene	ug/L	<1.0	20	20	23.6	24.5	118	123	59-143	4	30		
Toluene	ug/L	0.50J	20	20	22.6	23.0	110	113	59-148	2	30		
trans-1,2-Dichloroethene	ug/L	<1.0	20	20	23.3	24.1	116	121	70-146	4	30		
trans-1,3-Dichloropropene	ug/L	<1.0	20	20	23.1	22.8	115	114	70-135	1	30		
Trichloroethene	ug/L	<1.0	20	20	23.2	24.6	116	123	70-147	6	30		
Trichlorofluoromethane	ug/L	<1.0	20	20	21.8	21.8	109	109	70-148	0	30		
Vinyl acetate	ug/L	<2.0	40	40	50.6	51.0	126	127	49-151	1	30		
Vinyl chloride	ug/L	<1.0	20	20	20.2	20.8	101	104	70-156	3	30		
Xylene (Total)	ug/L	<1.0	60	60	68.5	71.6	114	119	63-158	4	30		
1,2-Dichloroethane-d4 (S)	%						96	100	70-130				
4-Bromofluorobenzene (S)	%						100	101	70-130				
Toluene-d8 (S)	%						99	97	70-130				

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

QC Batch:	564607	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92493401001, 92493401002, 92493401003

METHOD BLANK: 2992673 Matrix: Water

Associated Lab Samples: 92493401001, 92493401002, 92493401003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	09/04/20 12:05	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	09/04/20 12:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	09/04/20 12:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	09/04/20 12:05	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	09/04/20 12:05	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	09/04/20 12:05	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	09/04/20 12:05	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	09/04/20 12:05	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	09/04/20 12:05	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	09/04/20 12:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	09/04/20 12:05	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	09/04/20 12:05	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	09/04/20 12:05	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	09/04/20 12:05	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	09/04/20 12:05	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	09/04/20 12:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	09/04/20 12:05	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	09/04/20 12:05	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	09/04/20 12:05	
2-Chlorotoluene	ug/L	ND	1.0	0.20	09/04/20 12:05	
2-Hexanone	ug/L	ND	5.0	0.57	09/04/20 12:05	
4-Chlorotoluene	ug/L	ND	1.0	0.20	09/04/20 12:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	09/04/20 12:05	
Acetone	ug/L	ND	25.0	6.2	09/04/20 12:05	
Benzene	ug/L	ND	1.0	0.15	09/04/20 12:05	
Bromobenzene	ug/L	ND	1.0	0.22	09/04/20 12:05	
Bromochloromethane	ug/L	ND	1.0	0.34	09/04/20 12:05	
Bromodichloromethane	ug/L	ND	1.0	0.26	09/04/20 12:05	
Bromoform	ug/L	ND	1.0	0.62	09/04/20 12:05	
Bromomethane	ug/L	ND	2.0	0.62	09/04/20 12:05	
Carbon tetrachloride	ug/L	ND	1.0	0.22	09/04/20 12:05	
Chlorobenzene	ug/L	ND	1.0	0.23	09/04/20 12:05	
Chloroethane	ug/L	ND	1.0	0.49	09/04/20 12:05	
Chloroform	ug/L	ND	5.0	2.3	09/04/20 12:05	
Chloromethane	ug/L	ND	1.0	0.39	09/04/20 12:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	09/04/20 12:05	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	09/04/20 12:05	
Dibromochloromethane	ug/L	ND	1.0	0.41	09/04/20 12:05	
Dibromomethane	ug/L	ND	1.0	0.46	09/04/20 12:05	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	09/04/20 12:05	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

METHOD BLANK: 2992673 Matrix: Water  
Associated Lab Samples: 92493401001, 92493401002, 92493401003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	09/04/20 12:05	
Ethylbenzene	ug/L	ND	1.0	0.26	09/04/20 12:05	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	09/04/20 12:05	
m&p-Xylene	ug/L	ND	2.0	0.41	09/04/20 12:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	09/04/20 12:05	
Methylene Chloride	ug/L	ND	5.0	3.7	09/04/20 12:05	
Naphthalene	ug/L	ND	1.0	0.35	09/04/20 12:05	
o-Xylene	ug/L	ND	1.0	0.22	09/04/20 12:05	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	09/04/20 12:05	
Styrene	ug/L	ND	1.0	0.27	09/04/20 12:05	
Tetrachloroethene	ug/L	ND	1.0	0.16	09/04/20 12:05	
Toluene	ug/L	ND	1.0	0.24	09/04/20 12:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	09/04/20 12:05	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	09/04/20 12:05	
Trichloroethene	ug/L	ND	1.0	0.22	09/04/20 12:05	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	09/04/20 12:05	
Vinyl acetate	ug/L	ND	2.0	1.4	09/04/20 12:05	
Vinyl chloride	ug/L	ND	1.0	0.24	09/04/20 12:05	
Xylene (Total)	ug/L	ND	1.0	0.63	09/04/20 12:05	
1,2-Dichloroethane-d4 (S)	%	96	70-130		09/04/20 12:05	
4-Bromofluorobenzene (S)	%	104	70-130		09/04/20 12:05	
Toluene-d8 (S)	%	106	70-130		09/04/20 12:05	

LABORATORY CONTROL SAMPLE: 2992674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.0	106	70-130	
1,1,1-Trichloroethane	ug/L	50	54.4	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethane	ug/L	50	46.6	93	70-130	
1,1-Dichloroethene	ug/L	50	50.5	101	70-130	
1,1-Dichloropropene	ug/L	50	52.5	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.6	95	70-130	
1,2,3-Trichloropropane	ug/L	50	46.3	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	98	70-130	
1,2-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichloroethane	ug/L	50	48.8	98	70-130	
1,2-Dichloropropane	ug/L	50	47.7	95	70-130	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,3-Dichloropropane	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	47.0	94	70-130	
2,2-Dichloropropane	ug/L	50	56.3	113	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

LABORATORY CONTROL SAMPLE: 2992674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	83.1	83	70-130	
2-Chlorotoluene	ug/L	50	47.4	95	70-130	
2-Hexanone	ug/L	100	95.3	95	70-130	
4-Chlorotoluene	ug/L	50	46.7	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.9	92	70-130	
Acetone	ug/L	100	90.6	91	70-130	
Benzene	ug/L	50	47.1	94	70-130	
Bromobenzene	ug/L	50	45.8	92	70-130	
Bromochloromethane	ug/L	50	47.5	95	70-130	
Bromodichloromethane	ug/L	50	48.3	97	70-130	
Bromoform	ug/L	50	54.3	109	70-130	
Bromomethane	ug/L	50	57.3	115	70-130	
Carbon tetrachloride	ug/L	50	56.7	113	70-130	
Chlorobenzene	ug/L	50	46.6	93	70-130	
Chloroethane	ug/L	50	38.7	77	70-130	
Chloroform	ug/L	50	47.0	94	70-130	
Chloromethane	ug/L	50	38.4	77	70-130	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.4	109	70-130	
Dibromochloromethane	ug/L	50	54.5	109	70-130	
Dibromomethane	ug/L	50	49.2	98	70-130	
Dichlorodifluoromethane	ug/L	50	40.2	80	70-130	
Diisopropyl ether	ug/L	50	44.3	89	70-130	
Ethylbenzene	ug/L	50	47.1	94	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	70-130	
m&p-Xylene	ug/L	100	95.4	95	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Methylene Chloride	ug/L	50	42.6	85	70-130	
Naphthalene	ug/L	50	45.9	92	70-130	
o-Xylene	ug/L	50	46.0	92	70-130	
p-Isopropyltoluene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	49.8	100	70-130	
Toluene	ug/L	50	45.0	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	46.7	93	70-130	
Vinyl acetate	ug/L	100	91.4	91	70-130	
Vinyl chloride	ug/L	50	37.8	76	70-130	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2992751		2992752		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92493160009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	276	275	111	110	73-134	0	30		
1,1,1-Trichloroethane	ug/L	ND	250	250	277	274	111	110	82-143	1	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	279	282	112	113	70-136	1	30		
1,1,2-Trichloroethane	ug/L	ND	250	250	256	256	102	103	70-135	0	30		
1,1-Dichloroethane	ug/L	ND	250	250	259	270	104	108	70-139	4	30		
1,1-Dichloroethene	ug/L	ND	250	250	274	281	110	112	70-154	3	30		
1,1-Dichloropropene	ug/L	ND	250	250	288	273	115	109	70-149	6	30		
1,2,3-Trichlorobenzene	ug/L	ND	250	250	285	291	114	116	70-135	2	30		
1,2,3-Trichloropropane	ug/L	ND	250	250	265	260	106	104	71-137	2	30		
1,2,4-Trichlorobenzene	ug/L	ND	250	250	293	294	117	118	73-140	0	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	290	303	116	121	65-134	4	30		
1,2-Dichlorobenzene	ug/L	ND	250	250	281	272	113	109	70-133	3	30		
1,2-Dichloroethane	ug/L	ND	250	250	260	254	104	102	70-137	2	30		
1,2-Dichloropropane	ug/L	ND	250	250	262	260	105	104	70-140	1	30		
1,3-Dichlorobenzene	ug/L	ND	250	250	271	278	108	111	70-135	3	30		
1,3-Dichloropropane	ug/L	ND	250	250	274	271	109	108	70-143	1	30		
1,4-Dichlorobenzene	ug/L	ND	250	250	279	288	112	115	70-133	3	30		
2,2-Dichloropropane	ug/L	ND	250	250	324	314	130	125	61-148	3	30		
2-Butanone (MEK)	ug/L	ND	500	500	511	479	102	96	60-139	6	30		
2-Chlorotoluene	ug/L	ND	250	250	352	344	141	138	70-144	2	30		
2-Hexanone	ug/L	ND	500	500	522	556	104	111	65-138	6	30		
4-Chlorotoluene	ug/L	ND	250	250	276	277	110	111	70-137	0	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	500	500	491	503	98	101	65-135	2	30		
Acetone	ug/L	ND	500	500	552	564	110	113	60-148	2	30		
Benzene	ug/L	324	250	250	611	617	115	117	70-151	1	30		
Bromobenzene	ug/L	ND	250	250	283	268	113	107	70-136	5	30		
Bromochloromethane	ug/L	ND	250	250	283	288	113	115	70-141	2	30		
Bromodichloromethane	ug/L	ND	250	250	244	249	98	100	70-138	2	30		
Bromoform	ug/L	ND	250	250	237	237	95	95	63-130	0	30		
Bromomethane	ug/L	ND	250	250	282	254	113	102	15-152	10	30	v3	
Carbon tetrachloride	ug/L	ND	250	250	277	291	111	116	70-143	5	30		
Chlorobenzene	ug/L	ND	250	250	267	281	107	112	70-138	5	30		
Chloroethane	ug/L	ND	250	250	310	313	124	125	52-163	1	30		
Chloroform	ug/L	ND	250	250	272	276	109	110	70-139	1	30		
Chloromethane	ug/L	ND	250	250	232	243	93	97	41-139	5	30		
cis-1,2-Dichloroethene	ug/L	ND	250	250	282	270	113	108	70-141	4	30		
cis-1,3-Dichloropropene	ug/L	ND	250	250	277	273	111	109	70-137	1	30		
Dibromochloromethane	ug/L	ND	250	250	267	262	107	105	70-134	2	30		
Dibromomethane	ug/L	ND	250	250	219	229	87	92	70-138	5	30	IK	
Dichlorodifluoromethane	ug/L	ND	250	250	245	250	98	100	47-155	2	30		
Diisopropyl ether	ug/L	7.6J	250	250	271	270	106	105	63-144	0	30		
Ethylbenzene	ug/L	890	250	250	1140	1150	98	106	66-153	2	30		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	309	317	124	127	65-149	3	30		
m&p-Xylene	ug/L	2890	500	500	3350	3490	92	120	69-152	4	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2992751		2992752		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Methyl-tert-butyl ether	ug/L	23.5	250	250	294	283	108	104	54-156	4	30		
Methylene Chloride	ug/L	ND	250	250	275	287	110	115	42-159	4	30		
Naphthalene	ug/L	199	250	250	518	517	128	127	61-148	0	30		
o-Xylene	ug/L	486	250	250	741	768	102	113	70-148	4	30		
p-Isopropyltoluene	ug/L	ND	250	250	291	296	116	118	70-146	2	30		
Styrene	ug/L	ND	250	250	286	293	114	117	70-135	2	30		
Tetrachloroethene	ug/L	ND	250	250	263	277	105	111	59-143	5	30		
Toluene	ug/L	553	250	250	786	820	93	107	59-148	4	30		
trans-1,2-Dichloroethene	ug/L	ND	250	250	298	283	119	113	70-146	5	30		
trans-1,3-Dichloropropene	ug/L	ND	250	250	260	265	104	106	70-135	2	30		
Trichloroethene	ug/L	ND	250	250	271	270	108	108	70-147	0	30		
Trichlorofluoromethane	ug/L	ND	250	250	240	249	96	100	70-148	3	30	IK	
Vinyl acetate	ug/L	ND	500	500	591	569	118	114	49-151	4	30		
Vinyl chloride	ug/L	ND	250	250	236	256	94	102	70-156	8	30		
Xylene (Total)	ug/L	3380	750	750	4090	4260	95	118	63-158	4	30		
1,2-Dichloroethane-d4 (S)	%						104	100	70-130				
4-Bromofluorobenzene (S)	%						101	101	70-130				
Toluene-d8 (S)	%						97	99	70-130				

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

QC Batch: 564505 Analysis Method: EPA 8270E  
QC Batch Method: EPA 3510C Analysis Description: 8270E Water MSSV RVE  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92493401001, 92493401002, 92493401003

METHOD BLANK: 2992357 Matrix: Water  
Associated Lab Samples: 92493401001, 92493401002, 92493401003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.6	09/03/20 16:15	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.4	09/03/20 16:15	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	09/03/20 16:15	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.5	09/03/20 16:15	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.3	09/03/20 16:15	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	09/03/20 16:15	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	09/03/20 16:15	
2,4-Dichlorophenol	ug/L	ND	10.0	1.5	09/03/20 16:15	
2,4-Dimethylphenol	ug/L	ND	10.0	1.5	09/03/20 16:15	
2,4-Dinitrophenol	ug/L	ND	50.0	7.3	09/03/20 16:15	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.7	09/03/20 16:15	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.7	09/03/20 16:15	
2-Chloronaphthalene	ug/L	ND	10.0	1.4	09/03/20 16:15	
2-Chlorophenol	ug/L	ND	10.0	1.4	09/03/20 16:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.2	09/03/20 16:15	
2-Nitroaniline	ug/L	ND	20.0	3.0	09/03/20 16:15	
2-Nitrophenol	ug/L	ND	10.0	1.7	09/03/20 16:15	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.2	09/03/20 16:15	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	2.7	09/03/20 16:15	
3-Nitroaniline	ug/L	ND	20.0	2.8	09/03/20 16:15	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	4.5	09/03/20 16:15	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.2	09/03/20 16:15	
4-Chloro-3-methylphenol	ug/L	ND	10.0	2.8	09/03/20 16:15	
4-Chloroaniline	ug/L	ND	20.0	2.8	09/03/20 16:15	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.5	09/03/20 16:15	
4-Nitroaniline	ug/L	ND	20.0	3.1	09/03/20 16:15	
4-Nitrophenol	ug/L	ND	50.0	9.4	09/03/20 16:15	
Aniline	ug/L	ND	10.0	1.6	09/03/20 16:15	
Benzoic Acid	ug/L	ND	50.0	19.5	09/03/20 16:15	
Benzyl alcohol	ug/L	ND	20.0	2.6	09/03/20 16:15	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.3	09/03/20 16:15	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	09/03/20 16:15	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.0	09/03/20 16:15	
Butylbenzylphthalate	ug/L	ND	10.0	1.9	09/03/20 16:15	
Di-n-butylphthalate	ug/L	ND	10.0	1.6	09/03/20 16:15	
Di-n-octylphthalate	ug/L	ND	10.0	2.2	09/03/20 16:15	
Dibenzofuran	ug/L	ND	10.0	1.3	09/03/20 16:15	
Diethylphthalate	ug/L	ND	10.0	1.6	09/03/20 16:15	
Dimethylphthalate	ug/L	ND	10.0	1.4	09/03/20 16:15	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	09/03/20 16:15	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

METHOD BLANK: 2992357 Matrix: Water  
Associated Lab Samples: 92493401001, 92493401002, 92493401003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hexachlorobenzene	ug/L	ND	10.0	1.3	09/03/20 16:15	
Hexachlorocyclopentadiene	ug/L	ND	10.0	2.4	09/03/20 16:15	
Hexachloroethane	ug/L	ND	10.0	1.3	09/03/20 16:15	
Isophorone	ug/L	ND	10.0	1.3	09/03/20 16:15	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.3	09/03/20 16:15	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.8	09/03/20 16:15	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	09/03/20 16:15	
Nitrobenzene	ug/L	ND	10.0	1.5	09/03/20 16:15	
Pentachlorophenol	ug/L	ND	20.0	2.8	09/03/20 16:15	
Phenol	ug/L	ND	10.0	1.5	09/03/20 16:15	
2,4,6-Tribromophenol (S)	%	35	10-137		09/03/20 16:15	
2-Fluorobiphenyl (S)	%	36	13-130		09/03/20 16:15	
2-Fluorophenol (S)	%	28	10-130		09/03/20 16:15	
Nitrobenzene-d5 (S)	%	46	13-130		09/03/20 16:15	
Phenol-d6 (S)	%	20	10-130		09/03/20 16:15	
Terphenyl-d14 (S)	%	78	25-130		09/03/20 16:15	

LABORATORY CONTROL SAMPLE: 2992358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.9	72	30-130	
1,2-Dichlorobenzene	ug/L	50	38.2	76	30-130	
1,3-Dichlorobenzene	ug/L	50	37.1	74	20-130	
1,4-Dichlorobenzene	ug/L	50	38.3	77	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	59.2	118	20-130	
2,4,5-Trichlorophenol	ug/L	50	40.4	81	40-130	
2,4,6-Trichlorophenol	ug/L	50	38.7	77	40-130	
2,4-Dichlorophenol	ug/L	50	39.0	78	31-130	
2,4-Dimethylphenol	ug/L	50	44.0	88	30-130	
2,4-Dinitrophenol	ug/L	250	221	88	30-130	
2,4-Dinitrotoluene	ug/L	50	50.7	101	49-130	
2,6-Dinitrotoluene	ug/L	50	50.3	101	50-130	
2-Chloronaphthalene	ug/L	50	40.2	80	30-130	
2-Chlorophenol	ug/L	50	38.0	76	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	30-130	
2-Nitroaniline	ug/L	100	98.6	99	40-130	
2-Nitrophenol	ug/L	50	40.8	82	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.2	68	20-130	
3,3'-Dichlorobenzidine	ug/L	100	90.7	91	10-150	
3-Nitroaniline	ug/L	100	97.5	98	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	95.0	95	40-130	
4-Bromophenylphenyl ether	ug/L	50	43.2	86	30-130	
4-Chloro-3-methylphenol	ug/L	100	85.6	86	30-130	
4-Chloroaniline	ug/L	100	81.8	82	20-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

LABORATORY CONTROL SAMPLE: 2992358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Chlorophenylphenyl ether	ug/L	50	40.6	81	20-130	
4-Nitroaniline	ug/L	100	97.1	97	40-130	
4-Nitrophenol	ug/L	250	131	52	10-130	
Aniline	ug/L	50	33.8	68	20-130	
Benzoic Acid	ug/L	250	109	44	10-130	
Benzyl alcohol	ug/L	100	72.5	72	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	41.3	83	30-130	
bis(2-Chloroethyl) ether	ug/L	50	40.7	81	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	51.1	102	50-130	
Butylbenzylphthalate	ug/L	50	54.3	109	50-150	
Di-n-butylphthalate	ug/L	50	50.9	102	50-130	
Di-n-octylphthalate	ug/L	50	54.5	109	50-130	
Dibenzofuran	ug/L	50	44.0	88	40-130	
Diethylphthalate	ug/L	50	49.5	99	40-130	
Dimethylphthalate	ug/L	50	46.4	93	40-130	
Hexachloro-1,3-butadiene	ug/L	50	33.7	67	10-130	
Hexachlorobenzene	ug/L	50	41.1	82	30-130	
Hexachlorocyclopentadiene	ug/L	50	34.1	68	10-150	
Hexachloroethane	ug/L	50	37.2	74	10-130	
Isophorone	ug/L	50	43.6	87	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	45.1	90	30-130	
N-Nitrosodimethylamine	ug/L	50	30.2	60	10-130	
N-Nitrosodiphenylamine	ug/L	50	47.7	95	30-130	
Nitrobenzene	ug/L	50	40.5	81	20-130	
Pentachlorophenol	ug/L	100	84.7	85	10-140	
Phenol	ug/L	50	21.6	43	10-130	
2,4,6-Tribromophenol (S)	%			88	10-137	
2-Fluorobiphenyl (S)	%			78	13-130	
2-Fluorophenol (S)	%			52	10-130	
Nitrobenzene-d5 (S)	%			81	13-130	
Phenol-d6 (S)	%			42	10-130	
Terphenyl-d14 (S)	%			107	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2992359 2992360

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92484369020 Result	Spike Conc.	Spike Conc.	MS Result								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	27.5	26.3	55	53	30-130	5	30		
1,2-Dichlorobenzene	ug/L	ND	50	50	23.6	20.6	47	41	30-130	14	30		
1,3-Dichlorobenzene	ug/L	ND	50	50	21.4	19.2	43	38	20-130	11	30		
1,4-Dichlorobenzene	ug/L	ND	50	50	23.2	21.6	46	43	30-130	7	30		
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	39.8	35.6	80	71	20-130	11	30 v1		
2,4,5-Trichlorophenol	ug/L	ND	50	50	47.4	47.8	95	96	40-130	1	30		
2,4,6-Trichlorophenol	ug/L	ND	50	50	44.2	43.6	88	87	40-130	1	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2992359		2992360		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92484369020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
2,4-Dichlorophenol	ug/L	ND	50	50	42.7	42.3	85	85	31-130	1	30		
2,4-Dimethylphenol	ug/L	ND	50	50	41.6	37.8	83	76	30-130	10	30		
2,4-Dinitrophenol	ug/L	ND	250	250	66.9	42.9J	27	17	30-130		30	M1	
2,4-Dinitrotoluene	ug/L	ND	50	50	43.2	44.1	86	88	49-130	2	30		
2,6-Dinitrotoluene	ug/L	ND	50	50	42.0	42.7	84	85	50-130	2	30		
2-Chloronaphthalene	ug/L	ND	50	50	37.0	36.0	74	72	30-130	3	30		
2-Chlorophenol	ug/L	ND	50	50	38.0	36.1	76	72	30-130	5	30		
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	39.3	34.6	79	69	30-130	13	30		
2-Nitroaniline	ug/L	ND	100	100	78.0	79.1	78	79	40-130	1	30		
2-Nitrophenol	ug/L	ND	50	50	39.2	37.3	78	75	20-130	5	30		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	38.0	33.6	76	67	20-130	12	30		
3,3'-Dichlorobenzidine	ug/L	ND	100	100	73.2	77.9	73	78	10-150	6	30		
3-Nitroaniline	ug/L	ND	100	100	81.2	87.5	81	88	40-130	7	30		
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	70.5	61.1	71	61	40-130	14	30		
4-Bromophenylphenyl ether	ug/L	ND	50	50	40.1	41.6	80	83	30-130	4	30		
4-Chloro-3-methylphenol	ug/L	ND	100	100	89.6	91.4	90	91	30-130	2	30		
4-Chloroaniline	ug/L	ND	100	100	66.6	71.9	67	72	20-130	8	30		
4-Chlorophenylphenyl ether	ug/L	ND	50	50	38.3	38.1	77	76	20-130	0	30		
4-Nitroaniline	ug/L	ND	100	100	77.6	80.5	78	81	40-130	4	30		
4-Nitrophenol	ug/L	ND	250	250	123	99.2	49	40	10-130	21	30		
Aniline	ug/L	ND	50	50	29.4	29.4	59	59	20-130	0	30		
Benzoic Acid	ug/L	ND	250	250	ND	ND	0	0	10-130		30	M1	
Benzyl alcohol	ug/L	ND	100	100	76.6	71.2	77	71	20-130	7	30		
bis(2- Chloroethoxy)methane	ug/L	ND	50	50	35.6	33.5	71	67	30-130	6	30		
bis(2-Chloroethyl) ether	ug/L	ND	50	50	38.3	37.3	77	75	30-130	3	30		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	50.6	50.1	101	100	50-130	1	30		
Butylbenzylphthalate	ug/L	ND	50	50	51.6	51.0	103	102	50-150	1	30		
Di-n-butylphthalate	ug/L	ND	50	50	46.6	47.9	93	96	50-130	3	30		
Di-n-octylphthalate	ug/L	ND	50	50	57.2	52.3	114	105	50-130	9	30		
Dibenzofuran	ug/L	ND	50	50	38.8	38.1	78	76	40-130	2	30		
Diethylphthalate	ug/L	ND	50	50	40.9	42.0	82	84	40-130	3	30		
Dimethylphthalate	ug/L	ND	50	50	38.6	38.4	77	77	40-130	0	30		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	23.9	22.1	48	44	10-130	8	30		
Hexachlorobenzene	ug/L	ND	50	50	36.8	37.7	74	75	30-130	3	30		
Hexachlorocyclopentadiene	ug/L	ND	50	50	28.2	26.3	56	53	10-150	7	30		
Hexachloroethane	ug/L	ND	50	50	24.2	18.1	48	36	10-130	29	30		
Isophorone	ug/L	ND	50	50	36.4	32.5	73	65	30-130	11	30		
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	36.7	32.6	73	65	30-130	12	30		
N-Nitrosodimethylamine	ug/L	ND	50	50	32.2	30.9	64	62	10-130	4	30		
N-Nitrosodiphenylamine	ug/L	ND	50	50	41.5	42.8	83	86	30-130	3	30		
Nitrobenzene	ug/L	ND	50	50	43.4	38.6	87	77	20-130	12	30		
Pentachlorophenol	ug/L	ND	100	100	73.2	73.0	73	73	10-140	0	30		
Phenol	ug/L	ND	50	50	26.7	23.9	53	48	10-130	11	30		
2,4,6-Tribromophenol (S)	%						90	92	10-137				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Parameter	Units	2992359		2992360		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92484369020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
2-Fluorobiphenyl (S)	%					62	67	13-130			
2-Fluorophenol (S)	%					53	48	10-130			
Nitrobenzene-d5 (S)	%					78	70	13-130			
Phenol-d6 (S)	%					45	44	10-130			
Terphenyl-d14 (S)	%					101	105	25-130			

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
 Pace Project No.: 92493401

QC Batch: 564457 Analysis Method: EPA 8270E by SIM  
 QC Batch Method: EPA 3511 Analysis Description: 8270E 3511 Low Volume PAH SIM  
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92493401001, 92493401002, 92493401003

METHOD BLANK: 2992241 Matrix: Water

Associated Lab Samples: 92493401001, 92493401002, 92493401003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.80	0.0074	09/04/20 10:39	
2-Methylnaphthalene	ug/L	ND	0.80	0.023	09/04/20 10:39	
Acenaphthene	ug/L	ND	0.50	0.0084	09/04/20 10:39	
Acenaphthylene	ug/L	ND	0.50	0.018	09/04/20 10:39	
Anthracene	ug/L	ND	0.050	0.014	09/04/20 10:39	
Benzo(a)anthracene	ug/L	ND	0.050	0.046	09/04/20 10:39	
Benzo(a)pyrene	ug/L	ND	0.10	0.0090	09/04/20 10:39	
Benzo(b)fluoranthene	ug/L	ND	0.050	0.017	09/04/20 10:39	
Benzo(g,h,i)perylene	ug/L	ND	0.20	0.013	09/04/20 10:39	
Benzo(k)fluoranthene	ug/L	ND	0.20	0.014	09/04/20 10:39	
Chrysene	ug/L	ND	0.10	0.032	09/04/20 10:39	
Dibenz(a,h)anthracene	ug/L	ND	0.15	0.011	09/04/20 10:39	
Fluoranthene	ug/L	ND	0.30	0.015	09/04/20 10:39	
Fluorene	ug/L	ND	0.31	0.012	09/04/20 10:39	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.050	0.011	09/04/20 10:39	
Naphthalene	ug/L	0.017J	1.5	0.015	09/04/20 10:39	
Phenanthrene	ug/L	ND	0.20	0.030	09/04/20 10:39	
Pyrene	ug/L	ND	0.10	0.052	09/04/20 10:39	
2-Fluorobiphenyl (S)	%	134	45-150		09/04/20 10:39	
Nitrobenzene-d5 (S)	%	158	57-164		09/04/20 10:39	
Terphenyl-d14 (S)	%	142	38-153		09/04/20 10:39	

LABORATORY CONTROL SAMPLE: 2992242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2.5	2.9	115	70-130	
2-Methylnaphthalene	ug/L	2.5	2.9	118	70-130	
Acenaphthene	ug/L	2.5	3.0	120	70-130	
Acenaphthylene	ug/L	2.5	3.0	122	70-130	
Anthracene	ug/L	2.5	3.1	126	70-130	
Benzo(a)anthracene	ug/L	2.5	3.5	140	70-130 L1	
Benzo(a)pyrene	ug/L	2.5	3.5	141	70-130 L1	
Benzo(b)fluoranthene	ug/L	2.5	3.2	127	70-130	
Benzo(g,h,i)perylene	ug/L	2.5	3.0	121	70-130	
Benzo(k)fluoranthene	ug/L	2.5	3.2	128	70-130	
Chrysene	ug/L	2.5	3.2	127	70-130	
Dibenz(a,h)anthracene	ug/L	2.5	3.1	123	70-130	
Fluoranthene	ug/L	2.5	3.6	145	70-130 L1	
Fluorene	ug/L	2.5	3.1	125	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE J20090073  
Pace Project No.: 92493401

LABORATORY CONTROL SAMPLE: 2992242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2.5	3.2	129	70-130	
Naphthalene	ug/L	2.5	2.8	112	70-130	
Phenanthrene	ug/L	2.5	2.9	117	70-130	
Pyrene	ug/L	2.5	3.6	145	70-130 L1	
2-Fluorobiphenyl (S)	%			140	45-150	
Nitrobenzene-d5 (S)	%			156	57-164	
Terphenyl-d14 (S)	%			138	38-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2992243 2992244

Parameter	Units	MS 92493297005		MSD 2992244		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Result	Spike Conc.							
1-Methylnaphthalene	ug/L	ND	2.5	2.5	3.2	2.7	128	109	70-130	16	30	
2-Methylnaphthalene	ug/L	ND	2.5	2.5	3.3	2.8	130	112	70-130	15	30	
Acenaphthene	ug/L	ND	2.5	2.5	3.4	3.0	132	117	70-130	12	30	M1
Acenaphthylene	ug/L	ND	2.5	2.5	3.4	3.1	138	126	70-130	9	30	M1
Anthracene	ug/L	ND	2.5	2.5	3.6	3.2	143	128	70-130	11	30	M1
Benzo(a)anthracene	ug/L	ND	2.5	2.5	3.9	3.7	155	145	70-130	7	30	M0
Benzo(a)pyrene	ug/L	ND	2.5	2.5	3.7	3.4	147	138	70-130	7	30	M0
Benzo(b)fluoranthene	ug/L	ND	2.5	2.5	3.4	3.2	137	129	70-130	6	30	M1
Benzo(g,h,i)perylene	ug/L	ND	2.5	2.5	2.7	2.6	109	103	70-130	5	30	
Benzo(k)fluoranthene	ug/L	ND	2.5	2.5	3.3	3.0	132	118	70-130	11	30	M1
Chrysene	ug/L	ND	2.5	2.5	3.5	3.2	138	126	70-130	9	30	M1
Dibenz(a,h)anthracene	ug/L	ND	2.5	2.5	2.7	2.5	109	102	70-130	7	30	
Fluoranthene	ug/L	ND	2.5	2.5	4.1	3.7	164	147	70-130	11	30	M0
Fluorene	ug/L	ND	2.5	2.5	3.6	3.2	142	125	70-130	12	30	M1
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.5	2.5	3.0	2.8	122	114	70-130	7	30	
Naphthalene	ug/L	ND	2.5	2.5	3.1	2.8	122	110	70-130	10	30	
Phenanthrene	ug/L	ND	2.5	2.5	3.3	3.0	129	114	70-130	12	30	
Pyrene	ug/L	ND	2.5	2.5	4.1	3.8	162	149	70-130	8	30	M0
2-Fluorobiphenyl (S)	%						142	130	45-150			
Nitrobenzene-d5 (S)	%						165	151	57-164			S0
Terphenyl-d14 (S)	%						146	133	38-153			

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## QUALIFIERS

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1g	Re-extraction conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
2g	Sample re-extracted outside method hold time. Results of re-analysis confirmed original analysis performed within hold time.
B	Analyte was detected in the associated method blank.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER BRAMLETTE J20090073

Pace Project No.: 92493401

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92493401001	LC-SB-12-WG-20200829	EPA 3510C	564505	EPA 8270E	564552
92493401002	LC-SB-03-WG-20200828	EPA 3510C	564505	EPA 8270E	564552
92493401003	LC-SB-10-WG-20200829	EPA 3510C	564505	EPA 8270E	564552
92493401001	LC-SB-12-WG-20200829	EPA 3511	564457	EPA 8270E by SIM	564565
92493401002	LC-SB-03-WG-20200828	EPA 3511	564457	EPA 8270E by SIM	564565
92493401003	LC-SB-10-WG-20200829	EPA 3511	564457	EPA 8270E by SIM	564565
92493401001	LC-SB-12-WG-20200829	EPA 8260D	564607		
92493401002	LC-SB-03-WG-20200828	EPA 8260D	564607		
92493401003	LC-SB-10-WG-20200829	EPA 8260D	564607		
92493401004	TRIP BLANK	EPA 8260D	564159		

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Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

*Syattora*

Project #

W0# : 92493401



92493401

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *2/9/20*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  
 Yes  No  N/A

Thermometer:  IR Gun ID: *937061* Type of Ice:  Wat  Blue  None

Cooler Temp (°C): *5.0* Correction Factor: Add/Subtract (°C) *0*

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): *5.0*

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>WT</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

**WO# : 92493401**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/B015 (water) DOC, LLHg

PM: KLH1

Due Date: 09/09/20

\*\*Bottom half of box is to list number of bottle

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																3		3										2		
2																3		3										2		
3																3		3										2		
4																2														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Synterra	Report To:	Tom King	Attention:	
Address:	148 River street	Copy To:		Company Name:	
Suite 220, Greenville, SC 29601		Purchase Order #:		Address:	
Email:		Project Name:	Former Bramlette MGP Site	Pace Quote:	
Phone:		Project #:		Pace Project Manager:	kevin.herring@pacelabs.com
Requested Due Date:				Pace Profile #:	7754-13

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYTES	Residual Chlorine (Y/N)				
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other			
	LC-SR-12-W6-20200829	W16	8/16/10	1900															
	LC-SB-03-W6-20200828	W16	8/15/10	1700															
	LC-SB-10-W6-20200829	W16	8/16/10	1615															
	Trip Blank	W16	7/16/10																

PRINT Name of SAMPLER: Tom King		DATE Signed: 8/31/20
SIGNATURE of SAMPLER: <i>[Signature]</i>		



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

## Vendor QC Data Review Summary Report

**Order Number:** J20070399  
Project Name: MGP - BRAMLETTE MGP  
Customer Name(s): Rick Powell  
Lab Contact: Magda Dziurzynski Phone: 980-875-6610

**Report Authorized By:** \_\_\_\_\_ **Date:** 8/10/2020  
(Signature)  
Magda Dziurzynski

### Program Comments:

Please review all vendor data for case narratives with explanations of quality control failures and data qualifiers.

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. Certified vendor results and QC qualifiers can be found in the vendor lab final report.

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### Vendor Data Review Criteria:

This vendor data package has been reviewed at the Duke Analytical Laboratory for the following applicable criteria:

- Required QC samples collected and analyzed
- Required tests performed for all samples
- Vendor Laboratory utilized required test methods for all analyses
- Vendor Laboratory met all requested Reporting Limits (RL)
- QC Results reviewed for outlying recovery values

### Case Narrative:

Method: EPA 8270E by SIM

Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene recovery in the laboratory control sample associated with: MW-44BR\_WG\_20200714, MW-38BR\_WG\_20200714 and FB-01\_WQ\_20200715 was above QC limits.

The matrix spike recovery associated with MW-44TZ\_WG\_20200714 exceeded QC limits. Batch accepted based on LCS recovery.

The MB associated with samples: MW-38BR\_WG\_20200714 and FB-01\_WQ\_20200715 had Naphthalene detected at a concentration above the MDL but below the RL.

Method: EPA 8260D

Bromomethane recovery in the LCS associated with samples: MW-43BR\_WG\_20200714, MW-43TZ\_WG\_20200714, MW-43S\_WG\_20200714, MW-44TZ\_WG\_20200714 MS/MSD and FB-01\_WQ\_20200715 was above QC limits.



July 24, 2020

Program Manager  
Duke Energy  
13339 Hagers Ferry Road  
Bldg. 7405 MG30A2  
Huntersville, NC 28078

RE: Project: FORMER BRAMLETTE MGP J20070399  
Pace Project No.: 92486540

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring  
kevin.herring@pacelabs.com  
1(704)875-9092  
HORIZON Database Administrator

Enclosures

cc: Tom King  
Amber Lipsky  
Program Manager, Duke Energy  
Mike Mastbaum  
Todd Plating, Synterra  
Rick Powell  
B. Russo  
Heather Smith



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

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### **Pace Analytical Services Charlotte**

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92486540001	MW-43BR_WG_20200714	Water	07/14/20 08:24	07/15/20 15:25
92486540002	MW-43TZ_WG_20200714	Water	07/14/20 09:00	07/15/20 15:25
92486540003	MW-43S_WG_20200714	Water	07/14/20 09:37	07/15/20 15:25
92486540004	MW-44TZ_WG_20200714 MS/MSD	Water	07/14/20 10:44	07/15/20 15:25
92486540005	MW-44BR_WG_20200714	Water	07/14/20 12:00	07/15/20 15:25
92486540006	MW-38BR_WG_20200714	Water	07/14/20 13:29	07/15/20 15:25
92486540007	MW-38S_WG_20200714	Water	07/14/20 14:03	07/15/20 15:25
92486540008	MW-46BR_WG_20200714	Water	07/14/20 14:52	07/15/20 15:25
92486540009	MW-47BR_WG_20200715	Water	07/15/20 09:50	07/15/20 15:25
92486540010	MW-45BR_WG_20200715	Water	07/15/20 10:55	07/15/20 15:25
92486540011	MW-35BR_WG_20200715	Water	07/15/20 11:45	07/15/20 15:25
92486540012	FB-01_WQ_20200715	Water	07/15/20 11:40	07/15/20 15:25
92486540013	FD-01_WG_20200714	Water	07/14/20 12:00	07/15/20 15:25
92486540014	TB-01_WQ_20200715	Water	07/15/20 00:00	07/15/20 15:25

## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92486540001	MW-43BR_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540002	MW-43TZ_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540003	MW-43S_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540004	MW-44TZ_WG_20200714 MS/MSD	EPA 8270E	PKS	74	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540005	MW-44BR_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540006	MW-38BR_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540007	MW-38S_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540008	MW-46BR_WG_20200714	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540009	MW-47BR_WG_20200715	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540010	MW-45BR_WG_20200715	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540011	MW-35BR_WG_20200715	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540012	FB-01_WQ_20200715	EPA 8270E	PKS	56	PASI-C
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
92486540013	FD-01_WG_20200714	EPA 8270E	PKS	56	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	PKS	21	PASI-C
		EPA 8260D	CL	62	PASI-C
<b>92486540014</b>	<b>TB-01_WQ_20200715</b>	EPA 8260D	SAS	62	PASI-C

PASI-C = Pace Analytical Services - Charlotte

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92486540001</b>	<b>MW-43BR_WG_20200714</b>					
EPA 8270E by SIM	Naphthalene	0.076J	ug/L	1.5	07/17/20 15:02	
EPA 8260D	Methyl-tert-butyl ether	0.29J	ug/L	1.0	07/20/20 17:43	
<b>92486540002</b>	<b>MW-43TZ_WG_20200714</b>					
EPA 8260D	Methyl-tert-butyl ether	0.36J	ug/L	1.0	07/20/20 18:01	
<b>92486540003</b>	<b>MW-43S_WG_20200714</b>					
EPA 8260D	Diisopropyl ether	0.61J	ug/L	1.0	07/20/20 18:19	
EPA 8260D	Methyl-tert-butyl ether	28.8	ug/L	1.0	07/20/20 18:19	
<b>92486540005</b>	<b>MW-44BR_WG_20200714</b>					
EPA 8270E by SIM	1-Methylnaphthalene	0.044J	ug/L	1.6	07/23/20 16:00	
EPA 8270E by SIM	2-Methylnaphthalene	0.057J	ug/L	1.6	07/23/20 16:00	
EPA 8270E by SIM	Naphthalene	0.22J	ug/L	3.0	07/23/20 16:00	
<b>92486540006</b>	<b>MW-38BR_WG_20200714</b>					
EPA 8270E by SIM	1-Methylnaphthalene	0.049J	ug/L	0.80	07/23/20 16:43	
EPA 8270E by SIM	Naphthalene	0.079J	ug/L	1.5	07/23/20 16:43	B
<b>92486540007</b>	<b>MW-38S_WG_20200714</b>					
EPA 8270E by SIM	1-Methylnaphthalene	0.013J	ug/L	0.80	07/17/20 16:50	
EPA 8270E by SIM	2-Methylnaphthalene	0.025J	ug/L	0.80	07/17/20 16:50	
EPA 8270E by SIM	Naphthalene	0.027J	ug/L	1.5	07/17/20 16:50	
<b>92486540008</b>	<b>MW-46BR_WG_20200714</b>					
EPA 8270E by SIM	Acenaphthene	6.5	ug/L	0.50	07/17/20 17:12	
EPA 8270E by SIM	Acenaphthylene	37.5	ug/L	5.0	07/17/20 20:29	
EPA 8270E by SIM	Anthracene	4.6	ug/L	0.050	07/17/20 17:12	
EPA 8270E by SIM	Benzo(a)anthracene	0.050	ug/L	0.050	07/17/20 17:12	
EPA 8270E by SIM	Chrysene	0.037J	ug/L	0.10	07/17/20 17:12	
EPA 8270E by SIM	Fluoranthene	1.8	ug/L	0.30	07/17/20 17:12	
EPA 8270E by SIM	Fluorene	20.4	ug/L	0.31	07/17/20 17:12	
EPA 8270E by SIM	1-Methylnaphthalene	77.3	ug/L	8.0	07/17/20 20:29	
EPA 8270E by SIM	2-Methylnaphthalene	131	ug/L	8.0	07/17/20 20:29	
EPA 8270E by SIM	Naphthalene	194	ug/L	15.0	07/17/20 20:29	
EPA 8270E by SIM	Phenanthrene	30.9	ug/L	2.0	07/17/20 20:29	
EPA 8270E by SIM	Pyrene	2.7	ug/L	0.10	07/17/20 17:12	
EPA 8260D	Benzene	5.1	ug/L	1.0	07/21/20 22:38	
EPA 8260D	Ethylbenzene	2.6	ug/L	1.0	07/21/20 22:38	
EPA 8260D	Naphthalene	132	ug/L	1.0	07/21/20 22:38	
EPA 8260D	Styrene	4.3	ug/L	1.0	07/21/20 22:38	
EPA 8260D	Toluene	9.6	ug/L	1.0	07/21/20 22:38	
EPA 8260D	Xylene (Total)	8.0	ug/L	1.0	07/21/20 22:38	
EPA 8260D	m&p-Xylene	5.1	ug/L	2.0	07/21/20 22:38	
EPA 8260D	o-Xylene	2.9	ug/L	1.0	07/21/20 22:38	
<b>92486540009</b>	<b>MW-47BR_WG_20200715</b>					
EPA 8270E	Dibenzofuran	1.8J	ug/L	10.0	07/21/20 01:31	
EPA 8270E	2,4-Dimethylphenol	13.5	ug/L	10.0	07/21/20 01:31	
EPA 8270E	3&4-Methylphenol(m&p Cresol)	3.3J	ug/L	10.0	07/21/20 01:31	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92486540009</b>	<b>MW-47BR_WG_20200715</b>					
EPA 8270E by SIM	Acenaphthene	10.3	ug/L	0.50	07/17/20 17:34	
EPA 8270E by SIM	Acenaphthylene	105	ug/L	25.0	07/17/20 20:50	
EPA 8270E by SIM	Anthracene	5.0	ug/L	0.050	07/17/20 17:34	
EPA 8270E by SIM	Benzo(a)anthracene	0.15	ug/L	0.050	07/17/20 17:34	
EPA 8270E by SIM	Benzo(b)fluoranthene	0.023J	ug/L	0.050	07/17/20 17:34	
EPA 8270E by SIM	Chrysene	0.10	ug/L	0.10	07/17/20 17:34	
EPA 8270E by SIM	Fluoranthene	1.9	ug/L	0.30	07/17/20 17:34	
EPA 8270E by SIM	Fluorene	24.5	ug/L	0.31	07/17/20 17:34	
EPA 8270E by SIM	1-Methylnaphthalene	160	ug/L	40.0	07/17/20 20:50	
EPA 8270E by SIM	2-Methylnaphthalene	269	ug/L	40.0	07/17/20 20:50	
EPA 8270E by SIM	Naphthalene	1160	ug/L	75.0	07/17/20 20:50	
EPA 8270E by SIM	Phenanthrene	24.5	ug/L	10.0	07/17/20 20:50	
EPA 8270E by SIM	Pyrene	2.8	ug/L	0.10	07/17/20 17:34	
EPA 8260D	Benzene	226	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Diisopropyl ether	3.1J	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Ethylbenzene	261	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Naphthalene	1820	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Styrene	88.4	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Toluene	1390	ug/L	10.0	07/21/20 21:26	
EPA 8260D	Xylene (Total)	1420	ug/L	10.0	07/21/20 21:26	
EPA 8260D	m&p-Xylene	940	ug/L	20.0	07/21/20 21:26	
EPA 8260D	o-Xylene	477	ug/L	10.0	07/21/20 21:26	
<b>92486540010</b>	<b>MW-45BR_WG_20200715</b>					
EPA 8270E	2,4-Dimethylphenol	29.0	ug/L	10.0	07/21/20 01:56	
EPA 8270E	2-Methylphenol(o-Cresol)	3.7J	ug/L	10.0	07/21/20 01:56	
EPA 8270E	Phenol	3.2J	ug/L	10.0	07/21/20 01:56	
EPA 8270E by SIM	Acenaphthene	19.5	ug/L	0.50	07/17/20 17:57	
EPA 8270E by SIM	Acenaphthylene	17.9	ug/L	0.50	07/17/20 17:57	
EPA 8270E by SIM	Anthracene	0.32	ug/L	0.050	07/17/20 17:57	
EPA 8270E by SIM	Fluoranthene	0.14J	ug/L	0.30	07/17/20 17:57	
EPA 8270E by SIM	Fluorene	3.9	ug/L	0.31	07/17/20 17:57	
EPA 8270E by SIM	1-Methylnaphthalene	54.3	ug/L	40.0	07/17/20 21:12	
EPA 8270E by SIM	2-Methylnaphthalene	74.4	ug/L	40.0	07/17/20 21:12	
EPA 8270E by SIM	Naphthalene	514	ug/L	75.0	07/17/20 21:12	
EPA 8270E by SIM	Phenanthrene	2.1	ug/L	0.20	07/17/20 17:57	
EPA 8270E by SIM	Pyrene	0.14	ug/L	0.10	07/17/20 17:57	
EPA 8260D	Benzene	158	ug/L	5.0	07/21/20 21:08	
EPA 8260D	Ethylbenzene	27.5	ug/L	5.0	07/21/20 21:08	
EPA 8260D	Naphthalene	498	ug/L	5.0	07/21/20 21:08	
EPA 8260D	Styrene	14.5	ug/L	5.0	07/21/20 21:08	
EPA 8260D	Toluene	60.1	ug/L	5.0	07/21/20 21:08	
EPA 8260D	Xylene (Total)	42.6	ug/L	5.0	07/21/20 21:08	
EPA 8260D	m&p-Xylene	26.7	ug/L	10.0	07/21/20 21:08	
EPA 8260D	o-Xylene	15.9	ug/L	5.0	07/21/20 21:08	
<b>92486540011</b>	<b>MW-35BR_WG_20200715</b>					
EPA 8270E by SIM	1-Methylnaphthalene	0.025J	ug/L	0.80	07/17/20 18:19	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92486540011</b>	<b>MW-35BR_WG_20200715</b>					
EPA 8270E by SIM	2-Methylnaphthalene	0.040J	ug/L	0.80	07/17/20 18:19	
EPA 8270E by SIM	Naphthalene	0.15J	ug/L	1.5	07/17/20 18:19	
<b>92486540012</b>	<b>FB-01_WQ_20200715</b>					
EPA 8270E by SIM	Naphthalene	0.035J	ug/L	1.5	07/23/20 17:28	B
<b>92486540013</b>	<b>FD-01_WG_20200714</b>					
EPA 8270E	Phenol	1.6J	ug/L	10.0	07/22/20 01:47	
EPA 8270E by SIM	1-Methylnaphthalene	0.010J	ug/L	0.80	07/17/20 19:03	
EPA 8270E by SIM	Naphthalene	0.046J	ug/L	1.5	07/17/20 19:03	

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Method:** EPA 8270E

**Description:** 8270E RVE

**Client:** Duke Energy

**Date:** July 24, 2020

### General Information:

13 samples were analyzed for EPA 8270E by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 554292

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- FB-01\_WQ\_20200715 (Lab ID: 92486540012)
  - 2-Nitroaniline
  - 3&4-Methylphenol(m&p Cresol)
  - N-Nitroso-di-n-propylamine
  - bis(2-Ethylhexyl)phthalate
- FD-01\_WG\_20200714 (Lab ID: 92486540013)
  - 2-Nitroaniline
  - 3&4-Methylphenol(m&p Cresol)
  - N-Nitroso-di-n-propylamine
  - bis(2-Ethylhexyl)phthalate
- MSD (Lab ID: 2944868)
  - 2-Nitroaniline
  - N-Nitrosodimethylamine
- MW-35BR\_WG\_20200715 (Lab ID: 92486540011)
  - 2-Nitroaniline
  - 3&4-Methylphenol(m&p Cresol)
  - N-Nitroso-di-n-propylamine
  - bis(2-Ethylhexyl)phthalate
- MW-38BR\_WG\_20200714 (Lab ID: 92486540006)
  - 2-Nitroaniline
  - 3&4-Methylphenol(m&p Cresol)
  - N-Nitroso-di-n-propylamine
  - bis(2-Ethylhexyl)phthalate
- MW-38S\_WG\_20200714 (Lab ID: 92486540007)
  - 2-Nitroaniline

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Method:** EPA 8270E

**Description:** 8270E RVE

**Client:** Duke Energy

**Date:** July 24, 2020

QC Batch: 554292

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- 3&4-Methylphenol(m&p Cresol)
- N-Nitroso-di-n-propylamine
- bis(2-Ethylhexyl)phthalate

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 554292

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92484369009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2944868)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2,4,5-Trichlorophenol
  - 2,4,6-Trichlorophenol
  - 2,6-Dinitrotoluene
  - Dibenzofuran
  - N-Nitroso-di-n-propylamine

R1: RPD value was outside control limits.

- MSD (Lab ID: 2944868)
  - 2,4,5-Trichlorophenol
  - 4-Bromophenylphenyl ether
  - 4-Chloro-3-methylphenol
  - 4-Chlorophenylphenyl ether
  - Benzoic Acid
  - Dibenzofuran
  - Hexachlorobenzene

### Additional Comments:

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

---

**Method:** EPA 8270E by SIM

**Description:** 8270E Low Volume PAH SIM

**Client:** Duke Energy

**Date:** July 24, 2020

**General Information:**

13 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3511 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 553986

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- MW-45BR\_WG\_20200715 (Lab ID: 92486540010)
  - Nitrobenzene-d5 (S)
- MW-47BR\_WG\_20200715 (Lab ID: 92486540009)
  - Nitrobenzene-d5 (S)

QC Batch: 554401

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- MW-44BR\_WG\_20200714 (Lab ID: 92486540005)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

---

**Method:** EPA 8270E by SIM

**Description:** 8270E Low Volume PAH SIM

**Client:** Duke Energy

**Date:** July 24, 2020

QC Batch: 554401

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2945326)
  - Benzo(g,h,i)perylene
  - Benzo(k)fluoranthene
  - Dibenz(a,h)anthracene
  - Indeno(1,2,3-cd)pyrene

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 553986

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92485807003,92486540004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2943754)
  - Chrysene

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** July 24, 2020

### General Information:

14 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 554392

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- BLANK (Lab ID: 2945299)
  - Chloroethane
- FB-01\_WQ\_20200715 (Lab ID: 92486540012)
  - Chloroethane
- LCS (Lab ID: 2945300)
  - Chloroethane
- MW-43BR\_WG\_20200714 (Lab ID: 92486540001)
  - Chloroethane
- MW-43S\_WG\_20200714 (Lab ID: 92486540003)
  - Chloroethane
- MW-43TZ\_WG\_20200714 (Lab ID: 92486540002)
  - Chloroethane
- MW-44TZ\_WG\_20200714 MS/MSD (Lab ID: 92486540004)
  - Chloroethane

QC Batch: 554514

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- BLANK (Lab ID: 2945859)
  - Bromomethane
- LCS (Lab ID: 2945860)
  - Bromomethane
- MS (Lab ID: 2945861)
  - Bromomethane
- MSD (Lab ID: 2945862)
  - Bromomethane
- TB-01\_WQ\_20200715 (Lab ID: 92486540014)
  - Bromomethane

QC Batch: 554756

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- DUP (Lab ID: 2947923)

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## PROJECT NARRATIVE

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

---

**Method:** EPA 8260D

**Description:** 8260 MSV Low Level SC

**Client:** Duke Energy

**Date:** July 24, 2020

QC Batch: 554756

IK: The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

- Chloroethane
- MW-44BR\_WG\_20200714 (Lab ID: 92486540005)
- Chloroethane

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 554756

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- DUP (Lab ID: 2947923)
- Chloromethane
- MW-44BR\_WG\_20200714 (Lab ID: 92486540005)
- Chloromethane

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 554392

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2945300)
- Bromomethane

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43BR\_WG\_20200714 Lab ID: 92486540001 Collected: 07/14/20 08:24 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:30	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/20/20 22:30	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/20/20 22:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/20/20 22:30	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/20/20 22:30	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:30	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/20/20 22:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/20/20 22:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/20/20 22:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/20/20 22:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/20/20 22:30	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:30	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/20/20 22:30	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:30	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/20/20 22:30	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:30	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/20/20 22:30	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:30	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/20/20 22:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/20/20 22:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:30	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43BR\_WG\_20200714 Lab ID: 92486540001 Collected: 07/14/20 08:24 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:30	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:30	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	24	%	13-130		1	07/20/20 11:03	07/20/20 22:30	4165-60-0	
2-Fluorobiphenyl (S)	22	%	13-130		1	07/20/20 11:03	07/20/20 22:30	321-60-8	
Terphenyl-d14 (S)	80	%	25-130		1	07/20/20 11:03	07/20/20 22:30	1718-51-0	
Phenol-d6 (S)	15	%	10-130		1	07/20/20 11:03	07/20/20 22:30	13127-88-3	
2-Fluorophenol (S)	17	%	10-130		1	07/20/20 11:03	07/20/20 22:30	367-12-4	
2,4,6-Tribromophenol (S)	53	%	10-137		1	07/20/20 11:03	07/20/20 22:30	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 15:02	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 15:02	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 15:02	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 15:02	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 15:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 15:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 15:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 15:02	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 15:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 15:02	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 15:02	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 15:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 15:02	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 15:02	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 15:02	91-57-6	
Naphthalene	<b>0.076J</b>	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 15:02	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 15:02	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 15:02	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	106	%	57-164		1	07/17/20 14:07	07/17/20 15:02	4165-60-0	
2-Fluorobiphenyl (S)	110	%	45-150		1	07/17/20 14:07	07/17/20 15:02	321-60-8	
Terphenyl-d14 (S)	111	%	38-153		1	07/17/20 14:07	07/17/20 15:02	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 17:43	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 17:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 17:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 17:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 17:43	75-27-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43BR\_WG\_20200714 Lab ID: 92486540001 Collected: 07/14/20 08:24 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 17:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 17:43	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 17:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 17:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 17:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 17:43	75-00-3	IK
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 17:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 17:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 17:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 17:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 17:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 17:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 17:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 17:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 17:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 17:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 17:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 17:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/20/20 17:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 17:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 17:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 17:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 17:43	108-10-1	
Methyl-tert-butyl ether	<b>0.29J</b>	ug/L	1.0	0.28	1		07/20/20 17:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 17:43	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 17:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 17:43	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 17:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 17:43	71-55-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample: MW-43BR\_WG\_20200714**    **Lab ID: 92486540001**    Collected: 07/14/20 08:24    Received: 07/15/20 15:25    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 17:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 17:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 17:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 17:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 17:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 17:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 17:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 17:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 17:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/20/20 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		07/20/20 17:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		07/20/20 17:43	2037-26-5	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43TZ\_WG\_20200714 Lab ID: 92486540002 Collected: 07/14/20 09:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:56	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/20/20 22:56	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/20/20 22:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/20/20 22:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/20/20 22:56	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:56	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/20/20 22:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/20/20 22:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/20/20 22:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/20/20 22:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/20/20 22:56	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:56	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/20/20 22:56	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 22:56	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/20/20 22:56	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:56	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/20/20 22:56	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 22:56	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/20/20 22:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/20/20 22:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 22:56	108-60-1	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample: MW-43TZ\_WG\_20200714**    **Lab ID: 92486540002**    Collected: 07/14/20 09:00    Received: 07/15/20 15:25    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 22:56	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 22:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 22:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 22:56	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	56	%	13-130		1	07/20/20 11:03	07/20/20 22:56	4165-60-0	
2-Fluorobiphenyl (S)	48	%	13-130		1	07/20/20 11:03	07/20/20 22:56	321-60-8	
Terphenyl-d14 (S)	126	%	25-130		1	07/20/20 11:03	07/20/20 22:56	1718-51-0	
Phenol-d6 (S)	33	%	10-130		1	07/20/20 11:03	07/20/20 22:56	13127-88-3	
2-Fluorophenol (S)	43	%	10-130		1	07/20/20 11:03	07/20/20 22:56	367-12-4	
2,4,6-Tribromophenol (S)	57	%	10-137		1	07/20/20 11:03	07/20/20 22:56	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 15:24	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 15:24	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 15:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 15:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 15:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 15:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 15:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 15:24	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 15:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 15:24	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 15:24	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 15:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 15:24	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 15:24	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 15:24	91-57-6	
Naphthalene	ND	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 15:24	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 15:24	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 15:24	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	104	%	57-164		1	07/17/20 14:07	07/17/20 15:24	4165-60-0	
2-Fluorobiphenyl (S)	115	%	45-150		1	07/17/20 14:07	07/17/20 15:24	321-60-8	
Terphenyl-d14 (S)	113	%	38-153		1	07/17/20 14:07	07/17/20 15:24	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 18:01	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 18:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 18:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 18:01	75-27-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43TZ\_WG\_20200714 Lab ID: 92486540002 Collected: 07/14/20 09:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 18:01	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 18:01	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 18:01	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 18:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 18:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 18:01	75-00-3	IK
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 18:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 18:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 18:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 18:01	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 18:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 18:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 18:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 18:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 18:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 18:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 18:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 18:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/20/20 18:01	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 18:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 18:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 18:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 18:01	108-10-1	
Methyl-tert-butyl ether	<b>0.36J</b>	ug/L	1.0	0.28	1		07/20/20 18:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 18:01	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 18:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 18:01	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 18:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 18:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 18:01	71-55-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43TZ\_WG\_20200714 Lab ID: 92486540002 Collected: 07/14/20 09:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 18:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 18:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 18:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 18:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 18:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 18:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 18:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 18:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 18:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		07/20/20 18:01	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		07/20/20 18:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/20 18:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43S\_WG\_20200714 Lab ID: 92486540003 Collected: 07/14/20 09:37 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:22	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/20/20 23:22	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/20/20 23:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:22	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/20/20 23:22	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/20/20 23:22	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:22	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/20/20 23:22	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:22	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/20/20 23:22	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/20/20 23:22	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:22	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/20/20 23:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/20/20 23:22	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:22	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/20/20 23:22	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:22	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/20/20 23:22	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:22	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/20/20 23:22	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:22	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/20/20 23:22	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/20/20 23:22	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:22	108-60-1	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43S\_WG\_20200714 Lab ID: 92486540003 Collected: 07/14/20 09:37 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:22	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:22	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	13-130		1	07/20/20 11:03	07/20/20 23:22	4165-60-0	
2-Fluorobiphenyl (S)	46	%	13-130		1	07/20/20 11:03	07/20/20 23:22	321-60-8	
Terphenyl-d14 (S)	91	%	25-130		1	07/20/20 11:03	07/20/20 23:22	1718-51-0	
Phenol-d6 (S)	32	%	10-130		1	07/20/20 11:03	07/20/20 23:22	13127-88-3	
2-Fluorophenol (S)	41	%	10-130		1	07/20/20 11:03	07/20/20 23:22	367-12-4	
2,4,6-Tribromophenol (S)	46	%	10-137		1	07/20/20 11:03	07/20/20 23:22	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 15:46	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 15:46	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 15:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 15:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 15:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 15:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 15:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 15:46	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 15:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 15:46	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 15:46	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 15:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 15:46	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 15:46	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 15:46	91-57-6	
Naphthalene	ND	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 15:46	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 15:46	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 15:46	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	111	%	57-164		1	07/17/20 14:07	07/17/20 15:46	4165-60-0	
2-Fluorobiphenyl (S)	122	%	45-150		1	07/17/20 14:07	07/17/20 15:46	321-60-8	
Terphenyl-d14 (S)	118	%	38-153		1	07/17/20 14:07	07/17/20 15:46	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 18:19	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 18:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 18:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 18:19	75-27-4	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43S\_WG\_20200714 Lab ID: 92486540003 Collected: 07/14/20 09:37 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 18:19	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 18:19	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 18:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 18:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 18:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 18:19	75-00-3	IK
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 18:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 18:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 18:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 18:19	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 18:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 18:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 18:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 18:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 18:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 18:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 18:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 18:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 18:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 18:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 18:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 18:19	10061-02-6	
Diisopropyl ether	<b>0.61J</b>	ug/L	1.0	0.22	1		07/20/20 18:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 18:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 18:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 18:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 18:19	108-10-1	
Methyl-tert-butyl ether	<b>28.8</b>	ug/L	1.0	0.28	1		07/20/20 18:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 18:19	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:19	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 18:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 18:19	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 18:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 18:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 18:19	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-43S\_WG\_20200714 Lab ID: 92486540003 Collected: 07/14/20 09:37 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 18:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 18:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 18:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 18:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 18:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 18:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 18:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 18:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/20/20 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		07/20/20 18:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/20 18:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44TZ\_WG\_20200714 Lab ID: 92486540004 Collected: 07/14/20 10:44 Received: 07/15/20 15:25 Matrix: Water  
MS/MSD

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	208-96-8	
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	62-53-3	
Anthracene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.8	1	07/20/20 13:50	07/20/20 17:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	207-08-9	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 13:50	07/20/20 17:19	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 13:50	07/20/20 17:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 13:50	07/20/20 17:19	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 13:50	07/20/20 17:19	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 13:50	07/20/20 17:19	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 13:50	07/20/20 17:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	7005-72-3	
Chrysene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 13:50	07/20/20 17:19	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 13:50	07/20/20 17:19	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 13:50	07/20/20 17:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 13:50	07/20/20 17:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 13:50	07/20/20 17:19	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	206-44-0	
Fluorene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 13:50	07/20/20 17:19	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	67-72-1	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44TZ\_WG\_20200714 Lab ID: 92486540004 Collected: 07/14/20 10:44 Received: 07/15/20 15:25 Matrix: Water  
MS/MSD

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	193-39-5	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 13:50	07/20/20 17:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 13:50	07/20/20 17:19	15831-10-4	
Naphthalene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	91-20-3	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 13:50	07/20/20 17:19	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 13:50	07/20/20 17:19	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 13:50	07/20/20 17:19	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 13:50	07/20/20 17:19	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 13:50	07/20/20 17:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 13:50	07/20/20 17:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 13:50	07/20/20 17:19	108-60-1	
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 13:50	07/20/20 17:19	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	85-01-8	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	108-95-2	
Pyrene	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 13:50	07/20/20 17:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 13:50	07/20/20 17:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 13:50	07/20/20 17:19	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	48	%	13-130		1	07/20/20 13:50	07/20/20 17:19	4165-60-0	
2-Fluorobiphenyl (S)	44	%	13-130		1	07/20/20 13:50	07/20/20 17:19	321-60-8	
Terphenyl-d14 (S)	102	%	25-130		1	07/20/20 13:50	07/20/20 17:19	1718-51-0	
Phenol-d6 (S)	24	%	10-130		1	07/20/20 13:50	07/20/20 17:19	13127-88-3	
2-Fluorophenol (S)	33	%	10-130		1	07/20/20 13:50	07/20/20 17:19	367-12-4	
2,4,6-Tribromophenol (S)	41	%	10-137		1	07/20/20 13:50	07/20/20 17:19	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 16:07	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 16:07	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 16:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 16:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 16:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 16:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 16:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 16:07	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 16:07	218-01-9	M1
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 16:07	53-70-3	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample:** MW-44TZ\_WG\_20200714 **Lab ID:** 92486540004 **Collected:** 07/14/20 10:44 **Received:** 07/15/20 15:25 **Matrix:** Water  
**MS/MSD**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 16:07	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 16:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 16:07	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 16:07	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 16:07	91-57-6	
Naphthalene	ND	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 16:07	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 16:07	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 16:07	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	108	%	57-164		1	07/17/20 14:07	07/17/20 16:07	4165-60-0	
2-Fluorobiphenyl (S)	120	%	45-150		1	07/17/20 14:07	07/17/20 16:07	321-60-8	
Terphenyl-d14 (S)	109	%	38-153		1	07/17/20 14:07	07/17/20 16:07	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 18:37	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 18:37	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:37	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 18:37	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 18:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 18:37	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 18:37	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 18:37	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 18:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 18:37	75-00-3	IK
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 18:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 18:37	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:37	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 18:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 18:37	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 18:37	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 18:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 18:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 18:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 18:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 18:37	142-28-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44TZ\_WG\_20200714 Lab ID: 92486540004 Collected: 07/14/20 10:44 Received: 07/15/20 15:25 Matrix: Water  
MS/MSD

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 18:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 18:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 18:37	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/20/20 18:37	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 18:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 18:37	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 18:37	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 18:37	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 18:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/20/20 18:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 18:37	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 18:37	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 18:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 18:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 18:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 18:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 18:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 18:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 18:37	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 18:37	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 18:37	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 18:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 18:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 18:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/20/20 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		07/20/20 18:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/20/20 18:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44BR\_WG\_20200714 Lab ID: 92486540005 Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:47	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/20/20 23:47	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/20/20 23:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/20/20 23:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/20/20 23:47	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:47	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/20/20 23:47	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/20/20 23:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/20/20 23:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/20/20 23:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/20/20 23:47	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/20/20 23:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/20/20 23:47	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/20/20 23:47	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:47	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/20/20 23:47	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/20/20 23:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/20/20 23:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/20/20 23:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/20/20 23:47	108-60-1	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44BR\_WG\_20200714 Lab ID: 92486540005 Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/20/20 23:47	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/20/20 23:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/20/20 23:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/20/20 23:47	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	36	%	13-130		1	07/20/20 11:03	07/20/20 23:47	4165-60-0	
2-Fluorobiphenyl (S)	34	%	13-130		1	07/20/20 11:03	07/20/20 23:47	321-60-8	
Terphenyl-d14 (S)	64	%	25-130		1	07/20/20 11:03	07/20/20 23:47	1718-51-0	
Phenol-d6 (S)	19	%	10-130		1	07/20/20 11:03	07/20/20 23:47	13127-88-3	
2-Fluorophenol (S)	26	%	10-130		1	07/20/20 11:03	07/20/20 23:47	367-12-4	
2,4,6-Tribromophenol (S)	36	%	10-137		1	07/20/20 11:03	07/20/20 23:47	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	1.0	0.017	1	07/20/20 15:44	07/23/20 16:00	83-32-9	
Acenaphthylene	ND	ug/L	1.0	0.036	1	07/20/20 15:44	07/23/20 16:00	208-96-8	
Anthracene	ND	ug/L	0.10	0.027	1	07/20/20 15:44	07/23/20 16:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.093	1	07/20/20 15:44	07/23/20 16:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	0.018	1	07/20/20 15:44	07/23/20 16:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.033	1	07/20/20 15:44	07/23/20 16:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.40	0.025	1	07/20/20 15:44	07/23/20 16:00	191-24-2	L1
Benzo(k)fluoranthene	ND	ug/L	0.40	0.028	1	07/20/20 15:44	07/23/20 16:00	207-08-9	L1
Chrysene	ND	ug/L	0.20	0.064	1	07/20/20 15:44	07/23/20 16:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.30	0.022	1	07/20/20 15:44	07/23/20 16:00	53-70-3	L1
Fluoranthene	ND	ug/L	0.60	0.031	1	07/20/20 15:44	07/23/20 16:00	206-44-0	
Fluorene	ND	ug/L	0.62	0.024	1	07/20/20 15:44	07/23/20 16:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.022	1	07/20/20 15:44	07/23/20 16:00	193-39-5	L1
1-Methylnaphthalene	0.044J	ug/L	1.6	0.015	1	07/20/20 15:44	07/23/20 16:00	90-12-0	
2-Methylnaphthalene	0.057J	ug/L	1.6	0.046	1	07/20/20 15:44	07/23/20 16:00	91-57-6	
Naphthalene	0.22J	ug/L	3.0	0.031	1	07/20/20 15:44	07/23/20 16:00	91-20-3	
Phenanthrene	ND	ug/L	0.40	0.060	1	07/20/20 15:44	07/23/20 16:00	85-01-8	
Pyrene	ND	ug/L	0.20	0.10	1	07/20/20 15:44	07/23/20 16:00	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	180	%	57-164		1	07/20/20 15:44	07/23/20 16:00	4165-60-0	S3
2-Fluorobiphenyl (S)	159	%	45-150		1	07/20/20 15:44	07/23/20 16:00	321-60-8	S3
Terphenyl-d14 (S)	145	%	38-153		1	07/20/20 15:44	07/23/20 16:00	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 17:11	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/21/20 17:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 17:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 17:11	75-27-4	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Sample Project No.: 92486540

Sample: MW-44BR\_WG\_20200714 Lab ID: 92486540005 Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1	07/21/20 17:11	75-25-2		
Bromomethane	ND	ug/L	2.0	0.62	1	07/21/20 17:11	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1	07/21/20 17:11	78-93-3		
Carbon tetrachloride	ND	ug/L	1.0	0.22	1	07/21/20 17:11	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.23	1	07/21/20 17:11	108-90-7		
Chloroethane	ND	ug/L	1.0	0.49	1	07/21/20 17:11	75-00-3		IK
Chloroform	ND	ug/L	5.0	2.3	1	07/21/20 17:11	67-66-3		
Chloromethane	ND	ug/L	1.0	0.39	1	07/21/20 17:11	74-87-3		v2
2-Chlorotoluene	ND	ug/L	1.0	0.20	1	07/21/20 17:11	95-49-8		
4-Chlorotoluene	ND	ug/L	1.0	0.20	1	07/21/20 17:11	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1	07/21/20 17:11	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.41	1	07/21/20 17:11	124-48-1		
Dibromomethane	ND	ug/L	1.0	0.46	1	07/21/20 17:11	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1	07/21/20 17:11	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1	07/21/20 17:11	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1	07/21/20 17:11	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1	07/21/20 17:11	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1	07/21/20 17:11	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1	07/21/20 17:11	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1	07/21/20 17:11	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1	07/21/20 17:11	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1	07/21/20 17:11	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1	07/21/20 17:11	78-87-5		
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1	07/21/20 17:11	142-28-9		
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1	07/21/20 17:11	594-20-7		
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1	07/21/20 17:11	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1	07/21/20 17:11	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1	07/21/20 17:11	10061-02-6		
Diisopropyl ether	ND	ug/L	1.0	0.22	1	07/21/20 17:11	108-20-3		
Ethylbenzene	ND	ug/L	1.0	0.26	1	07/21/20 17:11	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1	07/21/20 17:11	87-68-3		
2-Hexanone	ND	ug/L	5.0	0.57	1	07/21/20 17:11	591-78-6		
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1	07/21/20 17:11	99-87-6		
Methylene Chloride	ND	ug/L	5.0	3.7	1	07/21/20 17:11	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1	07/21/20 17:11	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1	07/21/20 17:11	1634-04-4		
Naphthalene	ND	ug/L	1.0	0.35	1	07/21/20 17:11	91-20-3		
Styrene	ND	ug/L	1.0	0.27	1	07/21/20 17:11	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1	07/21/20 17:11	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1	07/21/20 17:11	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.16	1	07/21/20 17:11	127-18-4		
Toluene	ND	ug/L	1.0	0.24	1	07/21/20 17:11	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1	07/21/20 17:11	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1	07/21/20 17:11	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1	07/21/20 17:11	71-55-6		

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-44BR\_WG\_20200714 Lab ID: 92486540005 Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 17:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 17:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 17:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 17:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 17:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 17:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/21/20 17:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/21/20 17:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/21/20 17:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/21/20 17:11	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		07/21/20 17:11	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/21/20 17:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38BR\_WG\_20200714 Lab ID: 92486540006 Collected: 07/14/20 13:29 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:04	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/22/20 00:04	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/22/20 00:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:04	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/22/20 00:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/22/20 00:04	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:04	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/22/20 00:04	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:04	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/22/20 00:04	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/22/20 00:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:04	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/22/20 00:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/22/20 00:04	117-81-7	v1
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:04	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/22/20 00:04	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:04	15831-10-4	v1
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/22/20 00:04	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:04	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/22/20 00:04	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:04	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/22/20 00:04	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/22/20 00:04	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	621-64-7	v1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:04	108-60-1	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38BR\_WG\_20200714 Lab ID: 92486540006 Collected: 07/14/20 13:29 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:04	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:04	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:04	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	38	%	13-130		1	07/20/20 11:03	07/22/20 00:04	4165-60-0	
2-Fluorobiphenyl (S)	25	%	13-130		1	07/20/20 11:03	07/22/20 00:04	321-60-8	
Terphenyl-d14 (S)	78	%	25-130		1	07/20/20 11:03	07/22/20 00:04	1718-51-0	
Phenol-d6 (S)	25	%	10-130		1	07/20/20 11:03	07/22/20 00:04	13127-88-3	
2-Fluorophenol (S)	31	%	10-130		1	07/20/20 11:03	07/22/20 00:04	367-12-4	
2,4,6-Tribromophenol (S)	42	%	10-137		1	07/20/20 11:03	07/22/20 00:04	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/20/20 15:44	07/23/20 16:43	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/20/20 15:44	07/23/20 16:43	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/20/20 15:44	07/23/20 16:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/20/20 15:44	07/23/20 16:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/20/20 15:44	07/23/20 16:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/20/20 15:44	07/23/20 16:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/20/20 15:44	07/23/20 16:43	191-24-2	L1
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/20/20 15:44	07/23/20 16:43	207-08-9	L1
Chrysene	ND	ug/L	0.10	0.032	1	07/20/20 15:44	07/23/20 16:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/20/20 15:44	07/23/20 16:43	53-70-3	L1
Fluoranthene	ND	ug/L	0.30	0.015	1	07/20/20 15:44	07/23/20 16:43	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/20/20 15:44	07/23/20 16:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/20/20 15:44	07/23/20 16:43	193-39-5	L1
1-Methylnaphthalene	<b>0.049J</b>	ug/L	0.80	0.0074	1	07/20/20 15:44	07/23/20 16:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/20/20 15:44	07/23/20 16:43	91-57-6	
Naphthalene	<b>0.079J</b>	ug/L	1.5	0.015	1	07/20/20 15:44	07/23/20 16:43	91-20-3	B
Phenanthrene	ND	ug/L	0.20	0.030	1	07/20/20 15:44	07/23/20 16:43	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/20/20 15:44	07/23/20 16:43	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	102	%	57-164		1	07/20/20 15:44	07/23/20 16:43	4165-60-0	
2-Fluorobiphenyl (S)	95	%	45-150		1	07/20/20 15:44	07/23/20 16:43	321-60-8	
Terphenyl-d14 (S)	105	%	38-153		1	07/20/20 15:44	07/23/20 16:43	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 17:30	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/21/20 17:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 17:30	75-27-4	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Project No.: 92486540

Sample: MW-38BR\_WG\_20200714 Lab ID: 92486540006 Collected: 07/14/20 13:29 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/21/20 17:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/21/20 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/21/20 17:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/21/20 17:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/21/20 17:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/21/20 17:30	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/21/20 17:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/21/20 17:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 17:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 17:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/21/20 17:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/21/20 17:30	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/21/20 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/21/20 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/21/20 17:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/21/20 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/21/20 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/21/20 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/21/20 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/21/20 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/21/20 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/21/20 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/21/20 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/21/20 17:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/21/20 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/21/20 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/21/20 17:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/21/20 17:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/21/20 17:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/21/20 17:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/21/20 17:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/21/20 17:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/21/20 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/21/20 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/21/20 17:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/21/20 17:30	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/21/20 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/21/20 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/21/20 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/21/20 17:30	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/21/20 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/21/20 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/21/20 17:30	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38BR\_WG\_20200714 Lab ID: 92486540006 Collected: 07/14/20 13:29 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 17:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 17:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 17:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 17:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/21/20 17:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/21/20 17:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/21/20 17:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		07/21/20 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		07/21/20 17:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/21/20 17:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38S\_WG\_20200714 Lab ID: 92486540007 Collected: 07/14/20 14:03 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:29	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/22/20 00:29	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/22/20 00:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:29	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/22/20 00:29	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/22/20 00:29	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:29	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/22/20 00:29	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:29	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/22/20 00:29	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/22/20 00:29	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:29	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/22/20 00:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/22/20 00:29	117-81-7	v1
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:29	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/22/20 00:29	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:29	15831-10-4	v1
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/22/20 00:29	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:29	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/22/20 00:29	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:29	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/22/20 00:29	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/22/20 00:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	621-64-7	v1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:29	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38S\_WG\_20200714 Lab ID: 92486540007 Collected: 07/14/20 14:03 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:29	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:29	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	49	%	13-130		1	07/20/20 11:03	07/22/20 00:29	4165-60-0	
2-Fluorobiphenyl (S)	37	%	13-130		1	07/20/20 11:03	07/22/20 00:29	321-60-8	
Terphenyl-d14 (S)	108	%	25-130		1	07/20/20 11:03	07/22/20 00:29	1718-51-0	
Phenol-d6 (S)	28	%	10-130		1	07/20/20 11:03	07/22/20 00:29	13127-88-3	
2-Fluorophenol (S)	35	%	10-130		1	07/20/20 11:03	07/22/20 00:29	367-12-4	
2,4,6-Tribromophenol (S)	43	%	10-137		1	07/20/20 11:03	07/22/20 00:29	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 16:50	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 16:50	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 16:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 16:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 16:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 16:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 16:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 16:50	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 16:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 16:50	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 16:50	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 16:50	193-39-5	
1-Methylnaphthalene	<b>0.013J</b>	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 16:50	90-12-0	
2-Methylnaphthalene	<b>0.025J</b>	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 16:50	91-57-6	
Naphthalene	<b>0.027J</b>	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 16:50	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 16:50	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 16:50	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	102	%	57-164		1	07/17/20 14:07	07/17/20 16:50	4165-60-0	
2-Fluorobiphenyl (S)	113	%	45-150		1	07/17/20 14:07	07/17/20 16:50	321-60-8	
Terphenyl-d14 (S)	103	%	38-153		1	07/17/20 14:07	07/17/20 16:50	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 17:48	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/21/20 17:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 17:48	75-27-4	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Project No.: 92486540

Sample: MW-38S\_WG\_20200714 Lab ID: 92486540007 Collected: 07/14/20 14:03 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/21/20 17:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/21/20 17:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/21/20 17:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/21/20 17:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/21/20 17:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/21/20 17:48	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/21/20 17:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/21/20 17:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 17:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/21/20 17:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/21/20 17:48	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/21/20 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/21/20 17:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/21/20 17:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/21/20 17:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/21/20 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/21/20 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/21/20 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/21/20 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/21/20 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/21/20 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/21/20 17:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/21/20 17:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/21/20 17:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/21/20 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/21/20 17:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/21/20 17:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/21/20 17:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/21/20 17:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/21/20 17:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/21/20 17:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/21/20 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/21/20 17:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/21/20 17:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/21/20 17:48	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/21/20 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/21/20 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/21/20 17:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/21/20 17:48	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/21/20 17:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/21/20 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 17:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/21/20 17:48	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-38S\_WG\_20200714 Lab ID: 92486540007 Collected: 07/14/20 14:03 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 17:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 17:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 17:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 17:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/21/20 17:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/21/20 17:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/21/20 17:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/21/20 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		07/21/20 17:48	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		07/21/20 17:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-46BR\_WG\_20200714 Lab ID: 92486540008 Collected: 07/14/20 14:52 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E Preparation Method: EPA 3510C						
Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:05	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/21/20 01:05	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/21/20 01:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/21/20 01:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/21/20 01:05	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:05	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/21/20 01:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/21/20 01:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/21/20 01:05	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:05	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/21/20 01:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/21/20 01:05	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:05	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/21/20 01:05	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:05	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/21/20 01:05	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:05	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/21/20 01:05	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:05	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/21/20 01:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/21/20 01:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:05	108-60-1	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-46BR\_WG\_20200714 Lab ID: 92486540008 Collected: 07/14/20 14:52 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:05	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:05	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	38	%	13-130		1	07/20/20 11:03	07/21/20 01:05	4165-60-0	
2-Fluorobiphenyl (S)	25	%	13-130		1	07/20/20 11:03	07/21/20 01:05	321-60-8	
Terphenyl-d14 (S)	112	%	25-130		1	07/20/20 11:03	07/21/20 01:05	1718-51-0	
Phenol-d6 (S)	24	%	10-130		1	07/20/20 11:03	07/21/20 01:05	13127-88-3	
2-Fluorophenol (S)	31	%	10-130		1	07/20/20 11:03	07/21/20 01:05	367-12-4	
2,4,6-Tribromophenol (S)	63	%	10-137		1	07/20/20 11:03	07/21/20 01:05	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	6.5	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 17:12	83-32-9	
Acenaphthylene	37.5	ug/L	5.0	0.18	10	07/17/20 14:07	07/17/20 20:29	208-96-8	
Anthracene	4.6	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 17:12	120-12-7	
Benzo(a)anthracene	0.050	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 17:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 17:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 17:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 17:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 17:12	207-08-9	
Chrysene	0.037J	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 17:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 17:12	53-70-3	
Fluoranthene	1.8	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 17:12	206-44-0	
Fluorene	20.4	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 17:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 17:12	193-39-5	
1-Methylnaphthalene	77.3	ug/L	8.0	0.074	10	07/17/20 14:07	07/17/20 20:29	90-12-0	
2-Methylnaphthalene	131	ug/L	8.0	0.23	10	07/17/20 14:07	07/17/20 20:29	91-57-6	
Naphthalene	194	ug/L	15.0	0.15	10	07/17/20 14:07	07/17/20 20:29	91-20-3	
Phenanthrene	30.9	ug/L	2.0	0.30	10	07/17/20 14:07	07/17/20 20:29	85-01-8	
Pyrene	2.7	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 17:12	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	93	%	57-164		1	07/17/20 14:07	07/17/20 17:12	4165-60-0	
2-Fluorobiphenyl (S)	114	%	45-150		1	07/17/20 14:07	07/17/20 17:12	321-60-8	
Terphenyl-d14 (S)	119	%	38-153		1	07/17/20 14:07	07/17/20 17:12	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 22:38	67-64-1	
Benzene	5.1	ug/L	1.0	0.15	1		07/21/20 22:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 22:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 22:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 22:38	75-27-4	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-46BR\_WG\_20200714 Lab ID: 92486540008 Collected: 07/14/20 14:52 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/21/20 22:38	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/21/20 22:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/21/20 22:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/21/20 22:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/21/20 22:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/21/20 22:38	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/21/20 22:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/21/20 22:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 22:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/21/20 22:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/21/20 22:38	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/21/20 22:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/21/20 22:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 22:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/21/20 22:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/21/20 22:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/21/20 22:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/21/20 22:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/21/20 22:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/21/20 22:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/21/20 22:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/21/20 22:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/21/20 22:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/21/20 22:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/21/20 22:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/21/20 22:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/21/20 22:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/21/20 22:38	108-20-3	
Ethylbenzene	2.6	ug/L	1.0	0.26	1		07/21/20 22:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/21/20 22:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/21/20 22:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/21/20 22:38	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/21/20 22:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/21/20 22:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/21/20 22:38	1634-04-4	
Naphthalene	132	ug/L	1.0	0.35	1		07/21/20 22:38	91-20-3	
Styrene	4.3	ug/L	1.0	0.27	1		07/21/20 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/21/20 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/21/20 22:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/21/20 22:38	127-18-4	
Toluene	9.6	ug/L	1.0	0.24	1		07/21/20 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/21/20 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 22:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/21/20 22:38	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **MW-46BR\_WG\_20200714** Lab ID: **92486540008** Collected: 07/14/20 14:52 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 22:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 22:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 22:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 22:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 22:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 22:38	75-01-4	
Xylene (Total)	<b>8.0</b>	ug/L	1.0	0.63	1		07/21/20 22:38	1330-20-7	
m&p-Xylene	<b>5.1</b>	ug/L	2.0	0.41	1		07/21/20 22:38	179601-23-1	
o-Xylene	<b>2.9</b>	ug/L	1.0	0.22	1		07/21/20 22:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		07/21/20 22:38	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		07/21/20 22:38	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		07/21/20 22:38	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-47BR\_WG\_20200715 Lab ID: 92486540009 Collected: 07/15/20 09:50 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E Preparation Method: EPA 3510C						
Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:31	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/21/20 01:31	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/21/20 01:31	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:31	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/21/20 01:31	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/21/20 01:31	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:31	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:31	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	7005-72-3	
Dibenzofuran	<b>1.8J</b>	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/21/20 01:31	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:31	84-66-2	
2,4-Dimethylphenol	<b>13.5</b>	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/21/20 01:31	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/21/20 01:31	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:31	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:31	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/21/20 01:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/21/20 01:31	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:31	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/21/20 01:31	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	<b>3.3J</b>	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:31	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/21/20 01:31	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:31	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/21/20 01:31	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:31	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/21/20 01:31	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/21/20 01:31	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:31	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-47BR\_WG\_20200715 Lab ID: 92486540009 Collected: 07/15/20 09:50 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:31	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:31	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:31	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	42	%	13-130		1	07/20/20 11:03	07/21/20 01:31	4165-60-0	
2-Fluorobiphenyl (S)	31	%	13-130		1	07/20/20 11:03	07/21/20 01:31	321-60-8	
Terphenyl-d14 (S)	101	%	25-130		1	07/20/20 11:03	07/21/20 01:31	1718-51-0	
Phenol-d6 (S)	30	%	10-130		1	07/20/20 11:03	07/21/20 01:31	13127-88-3	
2-Fluorophenol (S)	39	%	10-130		1	07/20/20 11:03	07/21/20 01:31	367-12-4	
2,4,6-Tribromophenol (S)	57	%	10-137		1	07/20/20 11:03	07/21/20 01:31	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>10.3</b>	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 17:34	83-32-9	
Acenaphthylene	<b>105</b>	ug/L	25.0	0.90	50	07/17/20 14:07	07/17/20 20:50	208-96-8	
Anthracene	<b>5.0</b>	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 17:34	120-12-7	
Benzo(a)anthracene	<b>0.15</b>	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 17:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 17:34	50-32-8	
Benzo(b)fluoranthene	<b>0.023J</b>	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 17:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 17:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 17:34	207-08-9	
Chrysene	<b>0.10</b>	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 17:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 17:34	53-70-3	
Fluoranthene	<b>1.9</b>	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 17:34	206-44-0	
Fluorene	<b>24.5</b>	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 17:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 17:34	193-39-5	
1-Methylnaphthalene	<b>160</b>	ug/L	40.0	0.37	50	07/17/20 14:07	07/17/20 20:50	90-12-0	
2-Methylnaphthalene	<b>269</b>	ug/L	40.0	1.1	50	07/17/20 14:07	07/17/20 20:50	91-57-6	
Naphthalene	<b>1160</b>	ug/L	75.0	0.76	50	07/17/20 14:07	07/17/20 20:50	91-20-3	
Phenanthrene	<b>24.5</b>	ug/L	10.0	1.5	50	07/17/20 14:07	07/17/20 20:50	85-01-8	
Pyrene	<b>2.8</b>	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 17:34	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	46	%	57-164		1	07/17/20 14:07	07/17/20 17:34	4165-60-0	S5
2-Fluorobiphenyl (S)	107	%	45-150		1	07/17/20 14:07	07/17/20 17:34	321-60-8	
Terphenyl-d14 (S)	121	%	38-153		1	07/17/20 14:07	07/17/20 17:34	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	250	61.7	10		07/21/20 21:26	67-64-1	
Benzene	<b>226</b>	ug/L	10.0	1.5	10		07/21/20 21:26	71-43-2	
Bromobenzene	ND	ug/L	10.0	2.2	10		07/21/20 21:26	108-86-1	
Bromochloromethane	ND	ug/L	10.0	3.4	10		07/21/20 21:26	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	2.6	10		07/21/20 21:26	75-27-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-47BR\_WG\_20200715 Lab ID: 92486540009 Collected: 07/15/20 09:50 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>			Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Bromoform	ND	ug/L	10.0	6.2	10		07/21/20 21:26	75-25-2	
Bromomethane	ND	ug/L	20.0	6.2	10		07/21/20 21:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	33.3	10		07/21/20 21:26	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	2.2	10		07/21/20 21:26	56-23-5	
Chlorobenzene	ND	ug/L	10.0	2.3	10		07/21/20 21:26	108-90-7	
Chloroethane	ND	ug/L	10.0	4.9	10		07/21/20 21:26	75-00-3	
Chloroform	ND	ug/L	50.0	23.4	10		07/21/20 21:26	67-66-3	
Chloromethane	ND	ug/L	10.0	3.9	10		07/21/20 21:26	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	2.0	10		07/21/20 21:26	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	2.0	10		07/21/20 21:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	2.6	10		07/21/20 21:26	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	4.1	10		07/21/20 21:26	124-48-1	
Dibromomethane	ND	ug/L	10.0	4.6	10		07/21/20 21:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	2.9	10		07/21/20 21:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	2.2	10		07/21/20 21:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	2.6	10		07/21/20 21:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	2.3	10		07/21/20 21:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	2.7	10		07/21/20 21:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	3.4	10		07/21/20 21:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	2.4	10		07/21/20 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	2.9	10		07/21/20 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	2.5	10		07/21/20 21:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	1.9	10		07/21/20 21:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	1.6	10		07/21/20 21:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	2.7	10		07/21/20 21:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	2.1	10		07/21/20 21:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	3.0	10		07/21/20 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	3.1	10		07/21/20 21:26	10061-02-6	
Diisopropyl ether	3.1J	ug/L	10.0	2.2	10		07/21/20 21:26	108-20-3	
Ethylbenzene	261	ug/L	10.0	2.6	10		07/21/20 21:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	4.4	10		07/21/20 21:26	87-68-3	
2-Hexanone	ND	ug/L	50.0	5.7	10		07/21/20 21:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	2.1	10		07/21/20 21:26	99-87-6	
Methylene Chloride	ND	ug/L	50.0	36.9	10		07/21/20 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	45.3	10		07/21/20 21:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	2.8	10		07/21/20 21:26	1634-04-4	
Naphthalene	1820	ug/L	10.0	3.5	10		07/21/20 21:26	91-20-3	
Styrene	88.4	ug/L	10.0	2.7	10		07/21/20 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	3.4	10		07/21/20 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	2.2	10		07/21/20 21:26	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	1.6	10		07/21/20 21:26	127-18-4	
Toluene	1390	ug/L	10.0	2.4	10		07/21/20 21:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	3.4	10		07/21/20 21:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2.2	10		07/21/20 21:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	1.8	10		07/21/20 21:26	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-47BR\_WG\_20200715 Lab ID: 92486540009 Collected: 07/15/20 09:50 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	10.0	2.4	10		07/21/20 21:26	79-00-5	
Trichloroethene	ND	ug/L	10.0	2.2	10		07/21/20 21:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	3.1	10		07/21/20 21:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	3.5	10		07/21/20 21:26	96-18-4	
Vinyl acetate	ND	ug/L	20.0	14.5	10		07/21/20 21:26	108-05-4	
Vinyl chloride	ND	ug/L	10.0	2.4	10		07/21/20 21:26	75-01-4	
Xylene (Total)	<b>1420</b>	ug/L	10.0	6.3	10		07/21/20 21:26	1330-20-7	
m&p-Xylene	<b>940</b>	ug/L	20.0	4.1	10		07/21/20 21:26	179601-23-1	
o-Xylene	<b>477</b>	ug/L	10.0	2.2	10		07/21/20 21:26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		10		07/21/20 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		10		07/21/20 21:26	17060-07-0	
Toluene-d8 (S)	108	%	70-130		10		07/21/20 21:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-45BR\_WG\_20200715 Lab ID: 92486540010 Collected: 07/15/20 10:55 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>			Analytical Method: EPA 8270E Preparation Method: EPA 3510C						
			Pace Analytical Services - Charlotte						
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:56	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/21/20 01:56	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/21/20 01:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/21/20 01:56	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/21/20 01:56	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:56	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/21/20 01:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:56	84-66-2	
2,4-Dimethylphenol	<b>29.0</b>	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/21/20 01:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/21/20 01:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/21/20 01:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/21/20 01:56	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:56	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/21/20 01:56	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	78-59-1	
2-Methylphenol(o-Cresol)	<b>3.7J</b>	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/21/20 01:56	15831-10-4	
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/21/20 01:56	88-74-4	
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:56	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/21/20 01:56	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/21/20 01:56	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/21/20 01:56	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/21/20 01:56	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/21/20 01:56	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-45BR\_WG\_20200715 Lab ID: 92486540010 Collected: 07/15/20 10:55 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/21/20 01:56	87-86-5	
Phenol	<b>3.2J</b>	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/21/20 01:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/21/20 01:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/21/20 01:56	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	49	%	13-130		1	07/20/20 11:03	07/21/20 01:56	4165-60-0	
2-Fluorobiphenyl (S)	39	%	13-130		1	07/20/20 11:03	07/21/20 01:56	321-60-8	
Terphenyl-d14 (S)	81	%	25-130		1	07/20/20 11:03	07/21/20 01:56	1718-51-0	
Phenol-d6 (S)	33	%	10-130		1	07/20/20 11:03	07/21/20 01:56	13127-88-3	
2-Fluorophenol (S)	41	%	10-130		1	07/20/20 11:03	07/21/20 01:56	367-12-4	
2,4,6-Tribromophenol (S)	60	%	10-137		1	07/20/20 11:03	07/21/20 01:56	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	<b>19.5</b>	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 17:57	83-32-9	
Acenaphthylene	<b>17.9</b>	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 17:57	208-96-8	
Anthracene	<b>0.32</b>	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 17:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 17:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 17:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 17:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 17:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 17:57	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 17:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 17:57	53-70-3	
Fluoranthene	<b>0.14J</b>	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 17:57	206-44-0	
Fluorene	<b>3.9</b>	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 17:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 17:57	193-39-5	
1-Methylnaphthalene	<b>54.3</b>	ug/L	40.0	0.37	50	07/17/20 14:07	07/17/20 21:12	90-12-0	
2-Methylnaphthalene	<b>74.4</b>	ug/L	40.0	1.1	50	07/17/20 14:07	07/17/20 21:12	91-57-6	
Naphthalene	<b>514</b>	ug/L	75.0	0.76	50	07/17/20 14:07	07/17/20 21:12	91-20-3	
Phenanthrene	<b>2.1</b>	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 17:57	85-01-8	
Pyrene	<b>0.14</b>	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 17:57	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	57-164		1	07/17/20 14:07	07/17/20 17:57	4165-60-0	S5
2-Fluorobiphenyl (S)	115	%	45-150		1	07/17/20 14:07	07/17/20 17:57	321-60-8	
Terphenyl-d14 (S)	113	%	38-153		1	07/17/20 14:07	07/17/20 17:57	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	125	30.8	5		07/21/20 21:08	67-64-1	
Benzene	<b>158</b>	ug/L	5.0	0.75	5		07/21/20 21:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1.7	5		07/21/20 21:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.3	5		07/21/20 21:08	75-27-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-45BR\_WG\_20200715 Lab ID: 92486540010 Collected: 07/15/20 10:55 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	5.0	3.1	5		07/21/20 21:08	75-25-2	
Bromomethane	ND	ug/L	10.0	3.1	5		07/21/20 21:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	16.6	5		07/21/20 21:08	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	1.1	5		07/21/20 21:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.2	5		07/21/20 21:08	108-90-7	
Chloroethane	ND	ug/L	5.0	2.4	5		07/21/20 21:08	75-00-3	
Chloroform	ND	ug/L	25.0	11.7	5		07/21/20 21:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1.9	5		07/21/20 21:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.0	5		07/21/20 21:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.0	5		07/21/20 21:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1.3	5		07/21/20 21:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	2.1	5		07/21/20 21:08	124-48-1	
Dibromomethane	ND	ug/L	5.0	2.3	5		07/21/20 21:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	5		07/21/20 21:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.3	5		07/21/20 21:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.1	5		07/21/20 21:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.3	5		07/21/20 21:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.7	5		07/21/20 21:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1.2	5		07/21/20 21:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.5	5		07/21/20 21:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.3	5		07/21/20 21:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.94	5		07/21/20 21:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	0.79	5		07/21/20 21:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.4	5		07/21/20 21:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.5	5		07/21/20 21:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.5	5		07/21/20 21:08	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.1	5		07/21/20 21:08	108-20-3	
Ethylbenzene	27.5	ug/L	5.0	1.3	5		07/21/20 21:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	2.2	5		07/21/20 21:08	87-68-3	
2-Hexanone	ND	ug/L	25.0	2.8	5		07/21/20 21:08	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	99-87-6	
Methylene Chloride	ND	ug/L	25.0	18.4	5		07/21/20 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	22.6	5		07/21/20 21:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.4	5		07/21/20 21:08	1634-04-4	
Naphthalene	498	ug/L	5.0	1.8	5		07/21/20 21:08	91-20-3	
Styrene	14.5	ug/L	5.0	1.3	5		07/21/20 21:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	5		07/21/20 21:08	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.1	5		07/21/20 21:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.81	5		07/21/20 21:08	127-18-4	
Toluene	60.1	ug/L	5.0	1.2	5		07/21/20 21:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.7	5		07/21/20 21:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.88	5		07/21/20 21:08	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample: MW-45BR\_WG\_20200715**    **Lab ID: 92486540010**    Collected: 07/15/20 10:55    Received: 07/15/20 15:25    Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	5.0	1.2	5		07/21/20 21:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.1	5		07/21/20 21:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.6	5		07/21/20 21:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.7	5		07/21/20 21:08	96-18-4	
Vinyl acetate	ND	ug/L	10.0	7.2	5		07/21/20 21:08	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.2	5		07/21/20 21:08	75-01-4	
Xylene (Total)	<b>42.6</b>	ug/L	5.0	3.2	5		07/21/20 21:08	1330-20-7	
m&p-Xylene	<b>26.7</b>	ug/L	10.0	2.0	5		07/21/20 21:08	179601-23-1	
o-Xylene	<b>15.9</b>	ug/L	5.0	1.1	5		07/21/20 21:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		5		07/21/20 21:08	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		5		07/21/20 21:08	17060-07-0	
Toluene-d8 (S)	105	%	70-130		5		07/21/20 21:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-35BR\_WG\_20200715 Lab ID: 92486540011 Collected: 07/15/20 11:45 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<p><b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte</p>									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:55	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/22/20 00:55	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/22/20 00:55	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:55	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/22/20 00:55	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/22/20 00:55	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:55	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:55	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/22/20 00:55	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:55	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:55	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/22/20 00:55	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/22/20 00:55	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:55	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:55	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/22/20 00:55	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/22/20 00:55	117-81-7	v1
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:55	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/22/20 00:55	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:55	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 00:55	15831-10-4	v1
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/22/20 00:55	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:55	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/22/20 00:55	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 00:55	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/22/20 00:55	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/22/20 00:55	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	621-64-7	v1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 00:55	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-35BR\_WG\_20200715 Lab ID: 92486540011 Collected: 07/15/20 11:45 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 00:55	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 00:55	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 00:55	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 00:55	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	58	%	13-130		1	07/20/20 11:03	07/22/20 00:55	4165-60-0	
2-Fluorobiphenyl (S)	47	%	13-130		1	07/20/20 11:03	07/22/20 00:55	321-60-8	
Terphenyl-d14 (S)	116	%	25-130		1	07/20/20 11:03	07/22/20 00:55	1718-51-0	
Phenol-d6 (S)	34	%	10-130		1	07/20/20 11:03	07/22/20 00:55	13127-88-3	
2-Fluorophenol (S)	42	%	10-130		1	07/20/20 11:03	07/22/20 00:55	367-12-4	
2,4,6-Tribromophenol (S)	49	%	10-137		1	07/20/20 11:03	07/22/20 00:55	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 18:19	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 18:19	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 18:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 18:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 18:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 18:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 18:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 18:19	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 18:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 18:19	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 18:19	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 18:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 18:19	193-39-5	
1-Methylnaphthalene	<b>0.025J</b>	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 18:19	90-12-0	
2-Methylnaphthalene	<b>0.040J</b>	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 18:19	91-57-6	
Naphthalene	<b>0.15J</b>	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 18:19	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 18:19	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 18:19	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	115	%	57-164		1	07/17/20 14:07	07/17/20 18:19	4165-60-0	
2-Fluorobiphenyl (S)	124	%	45-150		1	07/17/20 14:07	07/17/20 18:19	321-60-8	
Terphenyl-d14 (S)	111	%	38-153		1	07/17/20 14:07	07/17/20 18:19	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 19:01	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/21/20 19:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 19:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 19:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 19:01	75-27-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-35BR\_WG\_20200715 Lab ID: 92486540011 Collected: 07/15/20 11:45 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/21/20 19:01	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/21/20 19:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/21/20 19:01	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/21/20 19:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/21/20 19:01	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/21/20 19:01	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/21/20 19:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/21/20 19:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 19:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 19:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/21/20 19:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/21/20 19:01	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/21/20 19:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/21/20 19:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/21/20 19:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/21/20 19:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/21/20 19:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/21/20 19:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/21/20 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/21/20 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/21/20 19:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/21/20 19:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/21/20 19:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/21/20 19:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/21/20 19:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/21/20 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/21/20 19:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/21/20 19:01	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/21/20 19:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/21/20 19:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/21/20 19:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/21/20 19:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/21/20 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/21/20 19:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/21/20 19:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/21/20 19:01	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/21/20 19:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/21/20 19:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/21/20 19:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/21/20 19:01	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/21/20 19:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/21/20 19:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 19:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/21/20 19:01	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: MW-35BR\_WG\_20200715 Lab ID: 92486540011 Collected: 07/15/20 11:45 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 19:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 19:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 19:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 19:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 19:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 19:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/21/20 19:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/21/20 19:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/21/20 19:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		07/21/20 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		07/21/20 19:01	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		07/21/20 19:01	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **FB-01\_WQ\_20200715** Lab ID: **92486540012** Collected: 07/15/20 11:40 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:21	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/22/20 01:21	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/22/20 01:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:21	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/22/20 01:21	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/22/20 01:21	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:21	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/22/20 01:21	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:21	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/22/20 01:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/22/20 01:21	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:21	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/22/20 01:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/22/20 01:21	117-81-7	v1
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:21	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/22/20 01:21	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:21	15831-10-4	v1
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/22/20 01:21	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:21	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/22/20 01:21	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:21	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/22/20 01:21	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/22/20 01:21	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	621-64-7	v1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:21	108-60-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample: FB-01\_WQ\_20200715**      **Lab ID: 92486540012**      Collected: 07/15/20 11:40      Received: 07/15/20 15:25      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E    Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:21	87-86-5	
Phenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:21	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:21	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	55	%	13-130		1	07/20/20 11:03	07/22/20 01:21	4165-60-0	
2-Fluorobiphenyl (S)	40	%	13-130		1	07/20/20 11:03	07/22/20 01:21	321-60-8	
Terphenyl-d14 (S)	97	%	25-130		1	07/20/20 11:03	07/22/20 01:21	1718-51-0	
Phenol-d6 (S)	36	%	10-130		1	07/20/20 11:03	07/22/20 01:21	13127-88-3	
2-Fluorophenol (S)	42	%	10-130		1	07/20/20 11:03	07/22/20 01:21	367-12-4	
2,4,6-Tribromophenol (S)	39	%	10-137		1	07/20/20 11:03	07/22/20 01:21	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM    Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/20/20 15:44	07/23/20 17:28	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/20/20 15:44	07/23/20 17:28	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/20/20 15:44	07/23/20 17:28	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/20/20 15:44	07/23/20 17:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/20/20 15:44	07/23/20 17:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/20/20 15:44	07/23/20 17:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/20/20 15:44	07/23/20 17:28	191-24-2	L1
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/20/20 15:44	07/23/20 17:28	207-08-9	L1
Chrysene	ND	ug/L	0.10	0.032	1	07/20/20 15:44	07/23/20 17:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/20/20 15:44	07/23/20 17:28	53-70-3	L1
Fluoranthene	ND	ug/L	0.30	0.015	1	07/20/20 15:44	07/23/20 17:28	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/20/20 15:44	07/23/20 17:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/20/20 15:44	07/23/20 17:28	193-39-5	L1
1-Methylnaphthalene	ND	ug/L	0.80	0.0074	1	07/20/20 15:44	07/23/20 17:28	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/20/20 15:44	07/23/20 17:28	91-57-6	
Naphthalene	<b>0.035J</b>	ug/L	1.5	0.015	1	07/20/20 15:44	07/23/20 17:28	91-20-3	B
Phenanthrene	ND	ug/L	0.20	0.030	1	07/20/20 15:44	07/23/20 17:28	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/20/20 15:44	07/23/20 17:28	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	110	%	57-164		1	07/20/20 15:44	07/23/20 17:28	4165-60-0	
2-Fluorobiphenyl (S)	97	%	45-150		1	07/20/20 15:44	07/23/20 17:28	321-60-8	
Terphenyl-d14 (S)	115	%	38-153		1	07/20/20 15:44	07/23/20 17:28	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 14:43	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 14:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 14:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 14:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 14:43	75-27-4	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **FB-01\_WQ\_20200715** Lab ID: **92486540012** Collected: 07/15/20 11:40 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 14:43	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 14:43	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 14:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 14:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 14:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 14:43	75-00-3	IK
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 14:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 14:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 14:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 14:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 14:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 14:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 14:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 14:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 14:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 14:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 14:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 14:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 14:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 14:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 14:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 14:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 14:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 14:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 14:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 14:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 14:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 14:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/20/20 14:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 14:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 14:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 14:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 14:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 14:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 14:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/20/20 14:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 14:43	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 14:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 14:43	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 14:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 14:43	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 14:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 14:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 14:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 14:43	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **FB-01\_WQ\_20200715** Lab ID: **92486540012** Collected: 07/15/20 11:40 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 14:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 14:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 14:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 14:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 14:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 14:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 14:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 14:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 14:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/20/20 14:43	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		07/20/20 14:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/20 14:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **FD-01\_WG\_20200714** Lab ID: **92486540013** Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b> Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Charlotte									
Aniline	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:47	62-53-3	
Benzoic Acid	ND	ug/L	50.0	19.5	1	07/20/20 11:03	07/22/20 01:47	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.6	1	07/20/20 11:03	07/22/20 01:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.9	1	07/20/20 11:03	07/22/20 01:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	10.0	2.8	1	07/20/20 11:03	07/22/20 01:47	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:47	111-44-4	
2-Chloronaphthalene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	7005-72-3	
Dibenzofuran	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.7	1	07/20/20 11:03	07/22/20 01:47	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	4.5	1	07/20/20 11:03	07/22/20 01:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	7.3	1	07/20/20 11:03	07/22/20 01:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	2.2	1	07/20/20 11:03	07/22/20 01:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	2.0	1	07/20/20 11:03	07/22/20 01:47	117-81-7	v1
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2.4	1	07/20/20 11:03	07/22/20 01:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	67-72-1	
Isophorone	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.2	1	07/20/20 11:03	07/22/20 01:47	15831-10-4	v1
2-Nitroaniline	ND	ug/L	20.0	3.0	1	07/20/20 11:03	07/22/20 01:47	88-74-4	v1
3-Nitroaniline	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:47	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	3.1	1	07/20/20 11:03	07/22/20 01:47	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	07/20/20 11:03	07/22/20 01:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	9.4	1	07/20/20 11:03	07/22/20 01:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.8	1	07/20/20 11:03	07/22/20 01:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	621-64-7	v1
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	1.3	1	07/20/20 11:03	07/22/20 01:47	108-60-1	

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## ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: **FD-01\_WG\_20200714** Lab ID: **92486540013** Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8270E RVE</b>									
Analytical Method: EPA 8270E Preparation Method: EPA 3510C									
Pace Analytical Services - Charlotte									
Pentachlorophenol	ND	ug/L	20.0	2.8	1	07/20/20 11:03	07/22/20 01:47	87-86-5	
Phenol	<b>1.6J</b>	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.6	1	07/20/20 11:03	07/22/20 01:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	1.5	1	07/20/20 11:03	07/22/20 01:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.4	1	07/20/20 11:03	07/22/20 01:47	88-06-2	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	41	%	13-130		1	07/20/20 11:03	07/22/20 01:47	4165-60-0	
2-Fluorobiphenyl (S)	35	%	13-130		1	07/20/20 11:03	07/22/20 01:47	321-60-8	
Terphenyl-d14 (S)	114	%	25-130		1	07/20/20 11:03	07/22/20 01:47	1718-51-0	
Phenol-d6 (S)	24	%	10-130		1	07/20/20 11:03	07/22/20 01:47	13127-88-3	
2-Fluorophenol (S)	30	%	10-130		1	07/20/20 11:03	07/22/20 01:47	367-12-4	
2,4,6-Tribromophenol (S)	39	%	10-137		1	07/20/20 11:03	07/22/20 01:47	118-79-6	
<b>8270E Low Volume PAH SIM</b>									
Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3511									
Pace Analytical Services - Charlotte									
Acenaphthene	ND	ug/L	0.50	0.0084	1	07/17/20 14:07	07/17/20 19:03	83-32-9	
Acenaphthylene	ND	ug/L	0.50	0.018	1	07/17/20 14:07	07/17/20 19:03	208-96-8	
Anthracene	ND	ug/L	0.050	0.014	1	07/17/20 14:07	07/17/20 19:03	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.050	0.046	1	07/17/20 14:07	07/17/20 19:03	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.0090	1	07/17/20 14:07	07/17/20 19:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.050	0.017	1	07/17/20 14:07	07/17/20 19:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	0.013	1	07/17/20 14:07	07/17/20 19:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	0.014	1	07/17/20 14:07	07/17/20 19:03	207-08-9	
Chrysene	ND	ug/L	0.10	0.032	1	07/17/20 14:07	07/17/20 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.15	0.011	1	07/17/20 14:07	07/17/20 19:03	53-70-3	
Fluoranthene	ND	ug/L	0.30	0.015	1	07/17/20 14:07	07/17/20 19:03	206-44-0	
Fluorene	ND	ug/L	0.31	0.012	1	07/17/20 14:07	07/17/20 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.011	1	07/17/20 14:07	07/17/20 19:03	193-39-5	
1-Methylnaphthalene	<b>0.010J</b>	ug/L	0.80	0.0074	1	07/17/20 14:07	07/17/20 19:03	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.80	0.023	1	07/17/20 14:07	07/17/20 19:03	91-57-6	
Naphthalene	<b>0.046J</b>	ug/L	1.5	0.015	1	07/17/20 14:07	07/17/20 19:03	91-20-3	
Phenanthrene	ND	ug/L	0.20	0.030	1	07/17/20 14:07	07/17/20 19:03	85-01-8	
Pyrene	ND	ug/L	0.10	0.052	1	07/17/20 14:07	07/17/20 19:03	129-00-0	
<b>Surrogates</b>									
Nitrobenzene-d5 (S)	116	%	57-164		1	07/17/20 14:07	07/17/20 19:03	4165-60-0	
2-Fluorobiphenyl (S)	129	%	45-150		1	07/17/20 14:07	07/17/20 19:03	321-60-8	
Terphenyl-d14 (S)	116	%	38-153		1	07/17/20 14:07	07/17/20 19:03	1718-51-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/21/20 18:06	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/21/20 18:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/21/20 18:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/21/20 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/21/20 18:06	75-27-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Sample Project No.: 92486540

Sample: **FD-01\_WG\_20200714** Lab ID: **92486540013** Collected: 07/14/20 12:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Bromoform	ND	ug/L	1.0	0.62	1		07/21/20 18:06	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/21/20 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/21/20 18:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/21/20 18:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/21/20 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/21/20 18:06	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/21/20 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/21/20 18:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 18:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/21/20 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/21/20 18:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/21/20 18:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/21/20 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/21/20 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/21/20 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/21/20 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/21/20 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/21/20 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/21/20 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/21/20 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/21/20 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/21/20 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/21/20 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/21/20 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/21/20 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/21/20 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/21/20 18:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/21/20 18:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/21/20 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/21/20 18:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/21/20 18:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/21/20 18:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/21/20 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/21/20 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/21/20 18:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/21/20 18:06	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/21/20 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/21/20 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/21/20 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/21/20 18:06	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/21/20 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/21/20 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/21/20 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/21/20 18:06	71-55-6	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample:** FD-01\_WG\_20200714      **Lab ID:** 92486540013      Collected: 07/14/20 12:00      Received: 07/15/20 15:25      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/21/20 18:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/21/20 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/21/20 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/21/20 18:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/21/20 18:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/21/20 18:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/21/20 18:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/21/20 18:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/21/20 18:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		07/21/20 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		07/21/20 18:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		07/21/20 18:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Sample: TB-01\_WQ\_20200715 Lab ID: 92486540014 Collected: 07/15/20 00:00 Received: 07/15/20 15:25 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Acetone	ND	ug/L	25.0	6.2	1		07/20/20 20:44	67-64-1	
Benzene	ND	ug/L	1.0	0.15	1		07/20/20 20:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.22	1		07/20/20 20:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		07/20/20 20:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.26	1		07/20/20 20:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.62	1		07/20/20 20:44	75-25-2	
Bromomethane	ND	ug/L	2.0	0.62	1		07/20/20 20:44	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	5.0	3.3	1		07/20/20 20:44	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.22	1		07/20/20 20:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		07/20/20 20:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.49	1		07/20/20 20:44	75-00-3	
Chloroform	ND	ug/L	5.0	2.3	1		07/20/20 20:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/20/20 20:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 20:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.20	1		07/20/20 20:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.26	1		07/20/20 20:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.41	1		07/20/20 20:44	124-48-1	
Dibromomethane	ND	ug/L	1.0	0.46	1		07/20/20 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.29	1		07/20/20 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.26	1		07/20/20 20:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		07/20/20 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.27	1		07/20/20 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		07/20/20 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		07/20/20 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.29	1		07/20/20 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.25	1		07/20/20 20:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/20/20 20:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		07/20/20 20:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		07/20/20 20:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.21	1		07/20/20 20:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		07/20/20 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.31	1		07/20/20 20:44	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		07/20/20 20:44	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.26	1		07/20/20 20:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.44	1		07/20/20 20:44	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		07/20/20 20:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.21	1		07/20/20 20:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	3.7	1		07/20/20 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	4.5	1		07/20/20 20:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		07/20/20 20:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		07/20/20 20:44	91-20-3	
Styrene	ND	ug/L	1.0	0.27	1		07/20/20 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.34	1		07/20/20 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		07/20/20 20:44	79-34-5	

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### ANALYTICAL RESULTS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

**Sample:** TB-01\_WQ\_20200715    **Lab ID:** 92486540014    Collected: 07/15/20 00:00    Received: 07/15/20 15:25    Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
Tetrachloroethene	ND	ug/L	1.0	0.16	1		07/20/20 20:44	127-18-4	
Toluene	ND	ug/L	1.0	0.24	1		07/20/20 20:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.34	1		07/20/20 20:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.22	1		07/20/20 20:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		07/20/20 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.24	1		07/20/20 20:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		07/20/20 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.31	1		07/20/20 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.35	1		07/20/20 20:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1.4	1		07/20/20 20:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.24	1		07/20/20 20:44	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.63	1		07/20/20 20:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		07/20/20 20:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		07/20/20 20:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/20/20 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		07/20/20 20:44	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/20/20 20:44	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399  
Pace Project No.: 92486540

QC Batch: 554392 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540004, 92486540012

METHOD BLANK: 2945299 Matrix: Water  
Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540004, 92486540012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	07/20/20 12:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	07/20/20 12:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	07/20/20 12:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	07/20/20 12:37	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	07/20/20 12:37	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	07/20/20 12:37	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	07/20/20 12:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	07/20/20 12:37	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	07/20/20 12:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	07/20/20 12:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	07/20/20 12:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	07/20/20 12:37	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	07/20/20 12:37	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	07/20/20 12:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	07/20/20 12:37	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	07/20/20 12:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	07/20/20 12:37	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	07/20/20 12:37	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	07/20/20 12:37	
2-Chlorotoluene	ug/L	ND	1.0	0.20	07/20/20 12:37	
2-Hexanone	ug/L	ND	5.0	0.57	07/20/20 12:37	
4-Chlorotoluene	ug/L	ND	1.0	0.20	07/20/20 12:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	07/20/20 12:37	
Acetone	ug/L	ND	25.0	6.2	07/20/20 12:37	
Benzene	ug/L	ND	1.0	0.15	07/20/20 12:37	
Bromobenzene	ug/L	ND	1.0	0.22	07/20/20 12:37	
Bromochloromethane	ug/L	ND	1.0	0.34	07/20/20 12:37	
Bromodichloromethane	ug/L	ND	1.0	0.26	07/20/20 12:37	
Bromoform	ug/L	ND	1.0	0.62	07/20/20 12:37	
Bromomethane	ug/L	ND	2.0	0.62	07/20/20 12:37	
Carbon tetrachloride	ug/L	ND	1.0	0.22	07/20/20 12:37	
Chlorobenzene	ug/L	ND	1.0	0.23	07/20/20 12:37	
Chloroethane	ug/L	ND	1.0	0.49	07/20/20 12:37	IK
Chloroform	ug/L	ND	5.0	2.3	07/20/20 12:37	
Chloromethane	ug/L	ND	1.0	0.39	07/20/20 12:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	07/20/20 12:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	07/20/20 12:37	
Dibromochloromethane	ug/L	ND	1.0	0.41	07/20/20 12:37	
Dibromomethane	ug/L	ND	1.0	0.46	07/20/20 12:37	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	07/20/20 12:37	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

METHOD BLANK: 2945299

Matrix: Water

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540004, 92486540012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	07/20/20 12:37	
Ethylbenzene	ug/L	ND	1.0	0.26	07/20/20 12:37	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	07/20/20 12:37	
m&p-Xylene	ug/L	ND	2.0	0.41	07/20/20 12:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	07/20/20 12:37	
Methylene Chloride	ug/L	ND	5.0	3.7	07/20/20 12:37	
Naphthalene	ug/L	ND	1.0	0.35	07/20/20 12:37	
o-Xylene	ug/L	ND	1.0	0.22	07/20/20 12:37	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	07/20/20 12:37	
Styrene	ug/L	ND	1.0	0.27	07/20/20 12:37	
Tetrachloroethene	ug/L	ND	1.0	0.16	07/20/20 12:37	
Toluene	ug/L	ND	1.0	0.24	07/20/20 12:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	07/20/20 12:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	07/20/20 12:37	
Trichloroethene	ug/L	ND	1.0	0.22	07/20/20 12:37	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	07/20/20 12:37	
Vinyl acetate	ug/L	ND	2.0	1.4	07/20/20 12:37	
Vinyl chloride	ug/L	ND	1.0	0.24	07/20/20 12:37	
Xylene (Total)	ug/L	ND	1.0	0.63	07/20/20 12:37	
1,2-Dichloroethane-d4 (S)	%	113	70-130		07/20/20 12:37	
4-Bromofluorobenzene (S)	%	99	70-130		07/20/20 12:37	
Toluene-d8 (S)	%	101	70-130		07/20/20 12:37	

LABORATORY CONTROL SAMPLE: 2945300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	53.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-130	
1,1-Dichloropropene	ug/L	50	49.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	70-130	
1,2,3-Trichloropropane	ug/L	50	49.0	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.2	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.8	114	70-130	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dichloroethane	ug/L	50	51.6	103	70-130	
1,2-Dichloropropane	ug/L	50	48.6	97	70-130	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,3-Dichloropropane	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	54.9	110	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2945300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	96.7	97	70-130	
2-Chlorotoluene	ug/L	50	52.4	105	70-130	
2-Hexanone	ug/L	100	100	100	70-130	
4-Chlorotoluene	ug/L	50	51.3	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.1	98	70-130	
Acetone	ug/L	100	108	108	70-130	
Benzene	ug/L	50	47.5	95	70-130	
Bromobenzene	ug/L	50	51.9	104	70-130	
Bromochloromethane	ug/L	50	50.2	100	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	55.5	111	70-130	
Bromomethane	ug/L	50	66.8	134	70-130	L1
Carbon tetrachloride	ug/L	50	54.8	110	70-130	
Chlorobenzene	ug/L	50	48.7	97	70-130	
Chloroethane	ug/L	50	48.1	96	70-130	IK
Chloroform	ug/L	50	50.0	100	70-130	
Chloromethane	ug/L	50	42.7	85	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	55.6	111	70-130	
Dibromomethane	ug/L	50	50.2	100	70-130	
Dichlorodifluoromethane	ug/L	50	45.2	90	70-130	
Diisopropyl ether	ug/L	50	47.9	96	70-130	
Ethylbenzene	ug/L	50	49.0	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.6	105	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	48.6	97	70-130	
Naphthalene	ug/L	50	49.1	98	70-130	
o-Xylene	ug/L	50	48.5	97	70-130	
p-Isopropyltoluene	ug/L	50	51.3	103	70-130	
Styrene	ug/L	50	50.6	101	70-130	
Tetrachloroethene	ug/L	50	51.0	102	70-130	
Toluene	ug/L	50	47.3	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	70-130	
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	45.5	91	70-130	
Vinyl acetate	ug/L	100	104	104	70-130	
Vinyl chloride	ug/L	50	47.3	95	70-130	
Xylene (Total)	ug/L	150	149	100	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2945301		2945302		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.1	23.3	106	116	73-134	10	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	22.0	22.7	110	113	82-143	3	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	22.8	104	114	70-136	10	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.9	23.6	110	118	70-135	7	30		
1,1-Dichloroethane	ug/L	ND	20	20	21.4	23.0	107	115	70-139	7	30		
1,1-Dichloroethene	ug/L	ND	20	20	23.1	23.8	115	119	70-154	3	30		
1,1-Dichloropropene	ug/L	ND	20	20	23.7	24.8	118	124	70-149	5	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.9	24.6	114	123	70-135	7	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	20.8	22.8	104	114	71-137	9	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.6	24.4	113	122	73-140	8	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.8	22.6	104	113	65-134	8	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	22.1	23.9	110	119	70-133	8	30		
1,2-Dichloroethane	ug/L	ND	20	20	21.2	22.0	106	110	70-137	3	30		
1,2-Dichloropropane	ug/L	ND	20	20	23.2	25.4	116	127	70-140	9	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.0	23.7	110	118	70-135	7	30		
1,3-Dichloropropane	ug/L	ND	20	20	22.1	24.4	111	122	70-143	10	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.2	23.7	111	118	70-133	6	30		
2,2-Dichloropropane	ug/L	ND	20	20	22.2	23.3	111	116	61-148	5	30		
2-Butanone (MEK)	ug/L	ND	40	40	42.5	44.6	106	112	60-139	5	30		
2-Chlorotoluene	ug/L	ND	20	20	22.8	24.7	114	124	70-144	8	30		
2-Hexanone	ug/L	ND	40	40	44.4	48.3	111	121	65-138	8	30		
4-Chlorotoluene	ug/L	ND	20	20	22.0	23.7	110	118	70-137	7	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	42.8	46.5	107	116	65-135	8	30		
Acetone	ug/L	ND	40	40	43.2	44.7	108	112	60-148	3	30		
Benzene	ug/L	ND	20	20	22.3	24.0	111	120	70-151	7	30		
Bromobenzene	ug/L	ND	20	20	22.2	23.7	111	119	70-136	7	30		
Bromochloromethane	ug/L	ND	20	20	21.9	22.6	109	113	70-141	3	30		
Bromodichloromethane	ug/L	ND	20	20	21.3	23.0	107	115	70-138	8	30		
Bromoform	ug/L	ND	20	20	21.1	22.4	105	112	63-130	6	30		
Bromomethane	ug/L	ND	20	20	28.3	30.1	142	151	15-152	6	30		
Carbon tetrachloride	ug/L	ND	20	20	23.7	25.2	119	126	70-143	6	30		
Chlorobenzene	ug/L	ND	20	20	22.3	24.3	112	121	70-138	9	30		
Chloroethane	ug/L	ND	20	20	21.6	22.5	108	113	52-163	4	30		
Chloroform	ug/L	ND	20	20	21.8	22.2	109	111	70-139	2	30		
Chloromethane	ug/L	ND	20	20	18.7	20.2	94	101	41-139	8	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	22.4	106	112	70-141	5	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	24.7	111	123	70-137	10	30		
Dibromochloromethane	ug/L	ND	20	20	21.9	23.6	110	118	70-134	7	30		
Dibromomethane	ug/L	ND	20	20	21.8	24.5	109	123	70-138	12	30		
Dichlorodifluoromethane	ug/L	ND	20	20	21.0	22.5	105	112	47-155	7	30		
Diisopropyl ether	ug/L	ND	20	20	21.5	22.8	108	114	63-144	6	30		
Ethylbenzene	ug/L	ND	20	20	22.4	24.0	112	120	66-153	7	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.3	24.9	117	125	65-149	7	30		
m&p-Xylene	ug/L	ND	40	40	45.0	48.6	112	122	69-152	8	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2945301		2945302		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Methyl-tert-butyl ether	ug/L	ND	20	20	21.4	22.9	107	115	54-156	7	30		
Methylene Chloride	ug/L	ND	20	20	22.3	23.7	111	118	42-159	6	30		
Naphthalene	ug/L	ND	20	20	20.5	22.9	103	114	61-148	11	30		
o-Xylene	ug/L	ND	20	20	22.0	23.4	110	117	70-148	6	30		
p-Isopropyltoluene	ug/L	ND	20	20	21.9	23.7	110	118	70-146	8	30		
Styrene	ug/L	ND	20	20	22.7	24.4	113	122	70-135	7	30		
Tetrachloroethene	ug/L	ND	20	20	22.8	24.3	114	121	59-143	6	30		
Toluene	ug/L	ND	20	20	21.9	23.4	110	117	59-148	7	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.1	23.5	111	118	70-146	6	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	23.5	107	117	70-135	9	30		
Trichloroethene	ug/L	ND	20	20	22.8	24.7	114	124	70-147	8	30		
Trichlorofluoromethane	ug/L	ND	20	20	19.9	20.7	99	104	70-148	4	30		
Vinyl acetate	ug/L	ND	40	40	40.0	42.5	100	106	49-151	6	30		
Vinyl chloride	ug/L	ND	20	20	22.8	23.7	114	119	70-156	4	30		
Xylene (Total)	ug/L	ND	60	60	67.0	72.0	112	120	63-158	7	30		
1,2-Dichloroethane-d4 (S)	%						99	97	70-130				
4-Bromofluorobenzene (S)	%						102	101	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

QC Batch: 554514

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV Low Level SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540014

METHOD BLANK: 2945859

Matrix: Water

Associated Lab Samples: 92486540014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	07/20/20 20:08	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	07/20/20 20:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	07/20/20 20:08	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	07/20/20 20:08	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	07/20/20 20:08	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	07/20/20 20:08	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	07/20/20 20:08	
1,2,3-Trichlorobenzene	ug/L	0.51J	1.0	0.34	07/20/20 20:08	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	07/20/20 20:08	
1,2,4-Trichlorobenzene	ug/L	0.40J	1.0	0.22	07/20/20 20:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	07/20/20 20:08	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	07/20/20 20:08	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	07/20/20 20:08	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	07/20/20 20:08	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	07/20/20 20:08	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	07/20/20 20:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	07/20/20 20:08	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	07/20/20 20:08	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	07/20/20 20:08	
2-Chlorotoluene	ug/L	ND	1.0	0.20	07/20/20 20:08	
2-Hexanone	ug/L	ND	5.0	0.57	07/20/20 20:08	
4-Chlorotoluene	ug/L	ND	1.0	0.20	07/20/20 20:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	07/20/20 20:08	
Acetone	ug/L	ND	25.0	6.2	07/20/20 20:08	
Benzene	ug/L	ND	1.0	0.15	07/20/20 20:08	
Bromobenzene	ug/L	ND	1.0	0.22	07/20/20 20:08	
Bromochloromethane	ug/L	ND	1.0	0.34	07/20/20 20:08	
Bromodichloromethane	ug/L	ND	1.0	0.26	07/20/20 20:08	
Bromoform	ug/L	ND	1.0	0.62	07/20/20 20:08	
Bromomethane	ug/L	ND	2.0	0.62	07/20/20 20:08	IK
Carbon tetrachloride	ug/L	ND	1.0	0.22	07/20/20 20:08	
Chlorobenzene	ug/L	ND	1.0	0.23	07/20/20 20:08	
Chloroethane	ug/L	ND	1.0	0.49	07/20/20 20:08	
Chloroform	ug/L	ND	5.0	2.3	07/20/20 20:08	
Chloromethane	ug/L	0.47J	1.0	0.39	07/20/20 20:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	07/20/20 20:08	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	07/20/20 20:08	
Dibromochloromethane	ug/L	ND	1.0	0.41	07/20/20 20:08	
Dibromomethane	ug/L	ND	1.0	0.46	07/20/20 20:08	
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	07/20/20 20:08	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

METHOD BLANK: 2945859

Matrix: Water

Associated Lab Samples: 92486540014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.22	07/20/20 20:08	
Ethylbenzene	ug/L	ND	1.0	0.26	07/20/20 20:08	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	07/20/20 20:08	
m&p-Xylene	ug/L	ND	2.0	0.41	07/20/20 20:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	07/20/20 20:08	
Methylene Chloride	ug/L	ND	5.0	3.7	07/20/20 20:08	
Naphthalene	ug/L	ND	1.0	0.35	07/20/20 20:08	
o-Xylene	ug/L	ND	1.0	0.22	07/20/20 20:08	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	07/20/20 20:08	
Styrene	ug/L	ND	1.0	0.27	07/20/20 20:08	
Tetrachloroethene	ug/L	ND	1.0	0.16	07/20/20 20:08	
Toluene	ug/L	ND	1.0	0.24	07/20/20 20:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	07/20/20 20:08	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	07/20/20 20:08	
Trichloroethene	ug/L	ND	1.0	0.22	07/20/20 20:08	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	07/20/20 20:08	
Vinyl acetate	ug/L	ND	2.0	1.4	07/20/20 20:08	
Vinyl chloride	ug/L	ND	1.0	0.24	07/20/20 20:08	
Xylene (Total)	ug/L	ND	1.0	0.63	07/20/20 20:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130		07/20/20 20:08	
4-Bromofluorobenzene (S)	%	101	70-130		07/20/20 20:08	
Toluene-d8 (S)	%	103	70-130		07/20/20 20:08	

LABORATORY CONTROL SAMPLE: 2945860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	70-130	
1,1,1-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethene	ug/L	50	50.4	101	70-130	
1,1-Dichloropropene	ug/L	50	55.8	112	70-130	
1,2,3-Trichlorobenzene	ug/L	50	59.8	120	70-130	
1,2,3-Trichloropropane	ug/L	50	51.1	102	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	70-130	
1,2-Dichlorobenzene	ug/L	50	54.1	108	70-130	
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
1,2-Dichloropropane	ug/L	50	50.1	100	70-130	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,3-Dichloropropane	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	53.0	106	70-130	
2,2-Dichloropropane	ug/L	50	53.7	107	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2945860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	97.2	97	70-130	
2-Chlorotoluene	ug/L	50	54.0	108	70-130	
2-Hexanone	ug/L	100	99.7	100	70-130	
4-Chlorotoluene	ug/L	50	52.6	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.9	97	70-130	
Acetone	ug/L	100	105	105	70-130	
Benzene	ug/L	50	52.0	104	70-130	
Bromobenzene	ug/L	50	56.1	112	70-130	
Bromochloromethane	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	46.7	93	70-130	
Bromoform	ug/L	50	50.0	100	70-130	
Bromomethane	ug/L	50	57.1	114	70-130	IK
Carbon tetrachloride	ug/L	50	49.6	99	70-130	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	41.6	83	70-130	
Chloroform	ug/L	50	51.8	104	70-130	
Chloromethane	ug/L	50	48.2	96	70-130	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.4	111	70-130	
Dibromochloromethane	ug/L	50	53.9	108	70-130	
Dibromomethane	ug/L	50	49.2	98	70-130	
Dichlorodifluoromethane	ug/L	50	53.2	106	70-130	
Diisopropyl ether	ug/L	50	50.3	101	70-130	
Ethylbenzene	ug/L	50	50.0	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.8	110	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	70-130	
Methylene Chloride	ug/L	50	47.2	94	70-130	
Naphthalene	ug/L	50	55.1	110	70-130	
o-Xylene	ug/L	50	51.6	103	70-130	
p-Isopropyltoluene	ug/L	50	56.3	113	70-130	
Styrene	ug/L	50	54.4	109	70-130	
Tetrachloroethene	ug/L	50	52.9	106	70-130	
Toluene	ug/L	50	50.8	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	42.6	85	70-130	
Vinyl acetate	ug/L	100	111	111	70-130	
Vinyl chloride	ug/L	50	56.5	113	70-130	
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2945861		2945862		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92486338004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	102	96.7	102	97	73-134	6	30		
1,1,1-Trichloroethane	ug/L	ND	100	100	123	106	123	106	82-143	15	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	108	101	108	101	70-136	7	30		
1,1,2-Trichloroethane	ug/L	ND	100	100	105	105	105	105	70-135	0	30		
1,1-Dichloroethane	ug/L	ND	100	100	125	114	125	114	70-139	10	30		
1,1-Dichloroethene	ug/L	ND	100	100	140	126	140	126	70-154	10	30		
1,1-Dichloropropene	ug/L	ND	100	100	128	112	128	112	70-149	13	30		
1,2,3-Trichlorobenzene	ug/L	ND	100	100	86.2	89.0	86	89	70-135	3	30		
1,2,3-Trichloropropane	ug/L	ND	100	100	109	105	109	105	71-137	4	30		
1,2,4-Trichlorobenzene	ug/L	ND	100	100	90.3	94.6	90	95	73-140	5	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	95.6	95.1	96	95	65-134	1	30		
1,2-Dichlorobenzene	ug/L	ND	100	100	105	93.9	105	94	70-133	11	30		
1,2-Dichloroethane	ug/L	ND	100	100	114	105	114	105	70-137	8	30		
1,2-Dichloropropane	ug/L	ND	100	100	111	108	111	108	70-140	3	30		
1,3-Dichlorobenzene	ug/L	ND	100	100	103	97.0	103	97	70-135	6	30		
1,3-Dichloropropane	ug/L	ND	100	100	109	103	109	103	70-143	5	30		
1,4-Dichlorobenzene	ug/L	ND	100	100	104	96.5	104	97	70-133	8	30		
2,2-Dichloropropane	ug/L	ND	100	100	111	103	111	103	61-148	8	30		
2-Butanone (MEK)	ug/L	ND	200	200	245	224	122	112	60-139	9	30		
2-Chlorotoluene	ug/L	ND	100	100	107	102	107	102	70-144	5	30		
2-Hexanone	ug/L	ND	200	200	214	211	107	106	65-138	1	30		
4-Chlorotoluene	ug/L	ND	100	100	108	94.6	108	95	70-137	13	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	217	206	109	103	65-135	5	30		
Acetone	ug/L	ND	200	200	274	222	137	111	60-148	21	30		
Benzene	ug/L	ND	100	100	121	110	121	110	70-151	9	30		
Bromobenzene	ug/L	ND	100	100	105	101	105	101	70-136	3	30		
Bromochloromethane	ug/L	ND	100	100	128	118	128	118	70-141	8	30		
Bromodichloromethane	ug/L	ND	100	100	105	95.4	105	95	70-138	10	30		
Bromoform	ug/L	ND	100	100	92.5	86.2	93	86	63-130	7	30		
Bromomethane	ug/L	ND	100	100	97.7	102	98	102	15-152	5	30	IK	
Carbon tetrachloride	ug/L	ND	100	100	113	106	113	106	70-143	7	30		
Chlorobenzene	ug/L	ND	100	100	105	101	105	101	70-138	4	30		
Chloroethane	ug/L	ND	100	100	121	107	121	107	52-163	12	30		
Chloroform	ug/L	ND	100	100	121	110	119	109	70-139	9	30		
Chloromethane	ug/L	ND	100	100	111	103	110	102	41-139	8	30		
cis-1,2-Dichloroethene	ug/L	15.3	100	100	140	123	125	108	70-141	13	30		
cis-1,3-Dichloropropene	ug/L	ND	100	100	114	108	114	108	70-137	6	30		
Dibromochloromethane	ug/L	ND	100	100	101	94.7	101	95	70-134	6	30		
Dibromomethane	ug/L	ND	100	100	108	99.0	108	99	70-138	8	30		
Dichlorodifluoromethane	ug/L	ND	100	100	131	117	131	117	47-155	11	30		
Diisopropyl ether	ug/L	ND	100	100	118	105	118	105	63-144	11	30		
Ethylbenzene	ug/L	ND	100	100	104	97.4	104	97	66-153	7	30		
Hexachloro-1,3-butadiene	ug/L	ND	100	100	88.5	85.4	88	85	65-149	3	30		
m&p-Xylene	ug/L	ND	200	200	204	195	102	97	69-152	5	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2945861		2945862		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92486338004 Result	MS Spike Conc.	MSD Spike Conc.									
Methyl-tert-butyl ether	ug/L	ND	100	100	112	105	112	105	54-156	7	30		
Methylene Chloride	ug/L	ND	100	100	128	112	122	107	42-159	13	30		
Naphthalene	ug/L	ND	100	100	78.7	85.9	79	86	61-148	9	30		
o-Xylene	ug/L	ND	100	100	108	101	108	101	70-148	7	30		
p-Isopropyltoluene	ug/L	ND	100	100	106	101	106	101	70-146	5	30		
Styrene	ug/L	ND	100	100	110	98.6	110	99	70-135	11	30		
Tetrachloroethene	ug/L	ND	100	100	107	96.7	107	97	59-143	10	30		
Toluene	ug/L	ND	100	100	113	107	113	107	59-148	5	30		
trans-1,2-Dichloroethene	ug/L	ND	100	100	131	117	131	117	70-146	11	30		
trans-1,3-Dichloropropene	ug/L	ND	100	100	103	99.6	103	100	70-135	3	30		
Trichloroethene	ug/L	560	100	100	689	657	130	98	70-147	5	30		
Trichlorofluoromethane	ug/L	ND	100	100	121	105	121	105	70-148	14	30		
Vinyl acetate	ug/L	ND	200	200	253	231	127	116	49-151	9	30		
Vinyl chloride	ug/L	ND	100	100	140	126	140	126	70-156	10	30		
Xylene (Total)	ug/L	ND	300	300	313	295	104	98	63-158	6	30		
1,2-Dichloroethane-d4 (S)	%						103	108	70-130				
4-Bromofluorobenzene (S)	%						101	99	70-130				
Toluene-d8 (S)	%						102	103	70-130				

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

QC Batch: 554756 Analysis Method: EPA 8260D  
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
 Laboratory: Pace Analytical Services - Charlotte  
 Associated Lab Samples: 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540013

METHOD BLANK: 2947088 Matrix: Water  
 Associated Lab Samples: 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.34	07/21/20 13:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.18	07/21/20 13:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.22	07/21/20 13:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.24	07/21/20 13:52	
1,1-Dichloroethane	ug/L	ND	1.0	0.27	07/21/20 13:52	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	07/21/20 13:52	
1,1-Dichloropropene	ug/L	ND	1.0	0.21	07/21/20 13:52	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.34	07/21/20 13:52	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.35	07/21/20 13:52	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.22	07/21/20 13:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.26	07/21/20 13:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.29	07/21/20 13:52	
1,2-Dichloroethane	ug/L	ND	1.0	0.34	07/21/20 13:52	
1,2-Dichloropropane	ug/L	ND	1.0	0.19	07/21/20 13:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.22	07/21/20 13:52	
1,3-Dichloropropane	ug/L	ND	1.0	0.16	07/21/20 13:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.26	07/21/20 13:52	
2,2-Dichloropropane	ug/L	ND	1.0	0.27	07/21/20 13:52	
2-Butanone (MEK)	ug/L	ND	5.0	3.3	07/21/20 13:52	
2-Chlorotoluene	ug/L	ND	1.0	0.20	07/21/20 13:52	
2-Hexanone	ug/L	ND	5.0	0.57	07/21/20 13:52	
4-Chlorotoluene	ug/L	ND	1.0	0.20	07/21/20 13:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	4.5	07/21/20 13:52	
Acetone	ug/L	ND	25.0	6.2	07/21/20 13:52	
Benzene	ug/L	ND	1.0	0.15	07/21/20 13:52	
Bromobenzene	ug/L	ND	1.0	0.22	07/21/20 13:52	
Bromochloromethane	ug/L	ND	1.0	0.34	07/21/20 13:52	
Bromodichloromethane	ug/L	ND	1.0	0.26	07/21/20 13:52	
Bromoform	ug/L	ND	1.0	0.62	07/21/20 13:52	
Bromomethane	ug/L	ND	2.0	0.62	07/21/20 13:52	
Carbon tetrachloride	ug/L	ND	1.0	0.22	07/21/20 13:52	
Chlorobenzene	ug/L	ND	1.0	0.23	07/21/20 13:52	
Chloroethane	ug/L	ND	1.0	0.49	07/21/20 13:52	
Chloroform	ug/L	ND	5.0	2.3	07/21/20 13:52	
Chloromethane	ug/L	ND	1.0	0.39	07/21/20 13:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.29	07/21/20 13:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.30	07/21/20 13:52	
Dibromochloromethane	ug/L	ND	1.0	0.41	07/21/20 13:52	
Dibromomethane	ug/L	ND	1.0	0.46	07/21/20 13:52	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

METHOD BLANK: 2947088

Matrix: Water

Associated Lab Samples: 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	0.23	07/21/20 13:52	
Diisopropyl ether	ug/L	ND	1.0	0.22	07/21/20 13:52	
Ethylbenzene	ug/L	ND	1.0	0.26	07/21/20 13:52	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.44	07/21/20 13:52	
m&p-Xylene	ug/L	ND	2.0	0.41	07/21/20 13:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	07/21/20 13:52	
Methylene Chloride	ug/L	ND	5.0	3.7	07/21/20 13:52	
Naphthalene	ug/L	ND	1.0	0.35	07/21/20 13:52	
o-Xylene	ug/L	ND	1.0	0.22	07/21/20 13:52	
p-Isopropyltoluene	ug/L	ND	1.0	0.21	07/21/20 13:52	
Styrene	ug/L	ND	1.0	0.27	07/21/20 13:52	
Tetrachloroethene	ug/L	ND	1.0	0.16	07/21/20 13:52	
Toluene	ug/L	ND	1.0	0.24	07/21/20 13:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.25	07/21/20 13:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.31	07/21/20 13:52	
Trichloroethene	ug/L	ND	1.0	0.22	07/21/20 13:52	
Trichlorofluoromethane	ug/L	ND	1.0	0.31	07/21/20 13:52	
Vinyl acetate	ug/L	ND	2.0	1.4	07/21/20 13:52	
Vinyl chloride	ug/L	ND	1.0	0.24	07/21/20 13:52	
Xylene (Total)	ug/L	ND	1.0	0.63	07/21/20 13:52	
1,2-Dichloroethane-d4 (S)	%	94	70-130		07/21/20 13:52	
4-Bromofluorobenzene (S)	%	105	70-130		07/21/20 13:52	
Toluene-d8 (S)	%	102	70-130		07/21/20 13:52	

LABORATORY CONTROL SAMPLE: 2947089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,1-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	49.0	98	70-130	
1,1-Dichloroethene	ug/L	50	46.2	92	70-130	
1,1-Dichloropropene	ug/L	50	54.0	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.5	103	70-130	
1,2,3-Trichloropropane	ug/L	50	49.0	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.7	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.6	101	70-130	
1,2-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
1,2-Dichloropropane	ug/L	50	54.3	109	70-130	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,3-Dichloropropane	ug/L	50	54.2	108	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2947089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
2,2-Dichloropropane	ug/L	50	48.3	97	70-130	
2-Butanone (MEK)	ug/L	100	107	107	70-130	
2-Chlorotoluene	ug/L	50	50.6	101	70-130	
2-Hexanone	ug/L	100	105	105	70-130	
4-Chlorotoluene	ug/L	50	49.4	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-130	
Acetone	ug/L	100	98.1	98	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Bromobenzene	ug/L	50	49.7	99	70-130	
Bromochloromethane	ug/L	50	49.9	100	70-130	
Bromodichloromethane	ug/L	50	50.2	100	70-130	
Bromoform	ug/L	50	53.1	106	70-130	
Bromomethane	ug/L	50	45.9	92	70-130	
Carbon tetrachloride	ug/L	50	52.6	105	70-130	
Chlorobenzene	ug/L	50	51.3	103	70-130	
Chloroethane	ug/L	50	45.1	90	70-130	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	42.6	85	70-130	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	54.5	109	70-130	
Dibromomethane	ug/L	50	51.8	104	70-130	
Dichlorodifluoromethane	ug/L	50	44.3	89	70-130	
Diisopropyl ether	ug/L	50	51.6	103	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	53.0	106	70-130	
Methylene Chloride	ug/L	50	50.2	100	70-130	
Naphthalene	ug/L	50	47.8	96	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
p-Isopropyltoluene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	52.7	105	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	48.7	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.6	105	70-130	
Trichloroethene	ug/L	50	53.8	108	70-130	
Trichlorofluoromethane	ug/L	50	44.2	88	70-130	
Vinyl acetate	ug/L	100	99.7	100	70-130	
Vinyl chloride	ug/L	50	49.8	100	70-130	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

MATRIX SPIKE SAMPLE:	2947090	92486722035	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	4000	4040	101	73-134	
1,1,1-Trichloroethane	ug/L	ND	4000	4440	108	82-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3940	99	70-136	
1,1,2-Trichloroethane	ug/L	ND	4000	4360	106	70-135	
1,1-Dichloroethane	ug/L	ND	4000	4330	108	70-139	
1,1-Dichloroethene	ug/L	ND	4000	4510	113	70-154	
1,1-Dichloropropene	ug/L	ND	4000	4490	112	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	4000	4260	106	70-135	
1,2,3-Trichloropropane	ug/L	ND	4000	3880	97	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	4000	4200	105	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	4000	3940	99	65-134	
1,2-Dichlorobenzene	ug/L	ND	4000	4240	106	70-133	
1,2-Dichloroethane	ug/L	ND	4000	4270	105	70-137	
1,2-Dichloropropane	ug/L	ND	4000	4420	111	70-140	
1,3-Dichlorobenzene	ug/L	ND	4000	4150	104	70-135	
1,3-Dichloropropane	ug/L	ND	4000	4250	106	70-143	
1,4-Dichlorobenzene	ug/L	ND	4000	4190	105	70-133	
2,2-Dichloropropane	ug/L	ND	4000	3930	98	61-148	
2-Butanone (MEK)	ug/L	ND	8000	7710	96	60-139	
2-Chlorotoluene	ug/L	ND	4000	4330	108	70-144	
2-Hexanone	ug/L	ND	8000	7980	100	65-138	
4-Chlorotoluene	ug/L	ND	4000	4160	104	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	8000	7960	100	65-135	
Acetone	ug/L	ND	8000	8540	107	60-148	
Benzene	ug/L	ND	4000	4290	107	70-151	
Bromobenzene	ug/L	ND	4000	4080	102	70-136	
Bromochloromethane	ug/L	ND	4000	4290	107	70-141	
Bromodichloromethane	ug/L	ND	4000	4180	104	70-138	
Bromoform	ug/L	ND	4000	3830	96	63-130	
Bromomethane	ug/L	ND	4000	4080	102	15-152	
Carbon tetrachloride	ug/L	ND	4000	4630	116	70-143	
Chlorobenzene	ug/L	ND	4000	4260	107	70-138	
Chloroethane	ug/L	ND	4000	4370	109	52-163	
Chloroform	ug/L	ND	4000	4430	107	70-139	
Chloromethane	ug/L	1100	4000	4800	92	41-139	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	70-141	
cis-1,3-Dichloropropene	ug/L	ND	4000	4260	107	70-137	
Dibromochloromethane	ug/L	ND	4000	4050	101	70-134	
Dibromomethane	ug/L	ND	4000	4460	111	70-138	
Dichlorodifluoromethane	ug/L	ND	4000	4100	102	47-155	
Diisopropyl ether	ug/L	ND	4000	4030	101	63-144	
Ethylbenzene	ug/L	ND	4000	4260	106	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	4000	4270	107	65-149	
m&p-Xylene	ug/L	ND	8000	8640	108	69-152	
Methyl-tert-butyl ether	ug/L	ND	4000	4070	102	54-156	
Methylene Chloride	ug/L	29100	4000	31900	69	42-159	
Naphthalene	ug/L	ND	4000	3910	98	61-148	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

MATRIX SPIKE SAMPLE: 2947090		92486722035	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
o-Xylene	ug/L	ND	4000	4240	106	70-148	
p-Isopropyltoluene	ug/L	ND	4000	4160	104	70-146	
Styrene	ug/L	ND	4000	4420	111	70-135	
Tetrachloroethene	ug/L	ND	4000	4200	105	59-143	
Toluene	ug/L	ND	4000	4240	106	59-148	
trans-1,2-Dichloroethene	ug/L	ND	4000	4290	107	70-146	
trans-1,3-Dichloropropene	ug/L	ND	4000	4040	101	70-135	
Trichloroethene	ug/L	ND	4000	4440	111	70-147	
Trichlorofluoromethane	ug/L	ND	4000	4060	102	70-148	
Vinyl acetate	ug/L	ND	8000	7440	93	49-151	
Vinyl chloride	ug/L	ND	4000	4470	112	70-156	
Xylene (Total)	ug/L	ND	12000	12900	107	63-158	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				104	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 2947923

Parameter	Units	92486540005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

SAMPLE DUPLICATE: 2947923

Parameter	Units	92486540005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30 IK	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30 v2	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	109			
4-Bromofluorobenzene (S)	%	104	98			
Toluene-d8 (S)	%	102	101			

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

QC Batch: 554292 Analysis Method: EPA 8270E  
 QC Batch Method: EPA 3510C Analysis Description: 8270E Water MSSV RVE  
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540012, 92486540013

METHOD BLANK: 2944865 Matrix: Water  
 Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540012, 92486540013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.6	07/20/20 18:12	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.4	07/20/20 18:12	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	07/20/20 18:12	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.5	07/20/20 18:12	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.3	07/20/20 18:12	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	07/20/20 18:12	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	07/20/20 18:12	
2,4-Dichlorophenol	ug/L	ND	10.0	1.5	07/20/20 18:12	
2,4-Dimethylphenol	ug/L	ND	10.0	1.5	07/20/20 18:12	
2,4-Dinitrophenol	ug/L	ND	50.0	7.3	07/20/20 18:12	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.7	07/20/20 18:12	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.7	07/20/20 18:12	
2-Chloronaphthalene	ug/L	ND	10.0	1.4	07/20/20 18:12	
2-Chlorophenol	ug/L	ND	10.0	1.4	07/20/20 18:12	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.2	07/20/20 18:12	
2-Nitroaniline	ug/L	ND	20.0	3.0	07/20/20 18:12	
2-Nitrophenol	ug/L	ND	10.0	1.7	07/20/20 18:12	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.2	07/20/20 18:12	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	2.7	07/20/20 18:12	
3-Nitroaniline	ug/L	ND	20.0	2.8	07/20/20 18:12	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	4.5	07/20/20 18:12	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.2	07/20/20 18:12	
4-Chloro-3-methylphenol	ug/L	ND	10.0	2.8	07/20/20 18:12	
4-Chloroaniline	ug/L	ND	20.0	2.8	07/20/20 18:12	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.5	07/20/20 18:12	
4-Nitroaniline	ug/L	ND	20.0	3.1	07/20/20 18:12	
4-Nitrophenol	ug/L	ND	50.0	9.4	07/20/20 18:12	
Aniline	ug/L	ND	10.0	1.6	07/20/20 18:12	
Benzoic Acid	ug/L	ND	50.0	19.5	07/20/20 18:12	
Benzyl alcohol	ug/L	ND	20.0	2.6	07/20/20 18:12	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.3	07/20/20 18:12	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	07/20/20 18:12	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.0	07/20/20 18:12	
Butylbenzylphthalate	ug/L	ND	10.0	1.9	07/20/20 18:12	
Di-n-butylphthalate	ug/L	ND	10.0	1.6	07/20/20 18:12	
Di-n-octylphthalate	ug/L	ND	10.0	2.2	07/20/20 18:12	
Dibenzofuran	ug/L	ND	10.0	1.3	07/20/20 18:12	
Diethylphthalate	ug/L	ND	10.0	1.6	07/20/20 18:12	
Dimethylphthalate	ug/L	ND	10.0	1.4	07/20/20 18:12	

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

METHOD BLANK: 2944865

Matrix: Water

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540005, 92486540006, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540012, 92486540013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	07/20/20 18:12	
Hexachlorobenzene	ug/L	ND	10.0	1.3	07/20/20 18:12	
Hexachlorocyclopentadiene	ug/L	ND	10.0	2.4	07/20/20 18:12	
Hexachloroethane	ug/L	ND	10.0	1.3	07/20/20 18:12	
Isophorone	ug/L	ND	10.0	1.3	07/20/20 18:12	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.3	07/20/20 18:12	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.8	07/20/20 18:12	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	07/20/20 18:12	
Nitrobenzene	ug/L	ND	10.0	1.5	07/20/20 18:12	
Pentachlorophenol	ug/L	ND	20.0	2.8	07/20/20 18:12	
Phenol	ug/L	ND	10.0	1.5	07/20/20 18:12	
2,4,6-Tribromophenol (S)	%	50	10-137		07/20/20 18:12	
2-Fluorobiphenyl (S)	%	63	13-130		07/20/20 18:12	
2-Fluorophenol (S)	%	47	10-130		07/20/20 18:12	
Nitrobenzene-d5 (S)	%	63	13-130		07/20/20 18:12	
Phenol-d6 (S)	%	35	10-130		07/20/20 18:12	
Terphenyl-d14 (S)	%	125	25-130		07/20/20 18:12	

LABORATORY CONTROL SAMPLE: 2944866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	23.3	47	30-130	
1,2-Dichlorobenzene	ug/L	50	22.3	45	30-130	
1,3-Dichlorobenzene	ug/L	50	21.5	43	20-130	
1,4-Dichlorobenzene	ug/L	50	23.1	46	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	21.6	43	20-130	
2,4,5-Trichlorophenol	ug/L	50	30.1	60	40-130	
2,4,6-Trichlorophenol	ug/L	50	26.5	53	40-130	
2,4-Dichlorophenol	ug/L	50	26.3	53	31-130	
2,4-Dimethylphenol	ug/L	50	27.2	54	30-130	
2,4-Dinitrophenol	ug/L	250	157	63	30-130	
2,4-Dinitrotoluene	ug/L	50	37.2	74	49-130	
2,6-Dinitrotoluene	ug/L	50	34.7	69	50-130	
2-Chloronaphthalene	ug/L	50	25.1	50	30-130	
2-Chlorophenol	ug/L	50	24.7	49	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	23.4	47	30-130	
2-Nitroaniline	ug/L	100	58.2	58	40-130	
2-Nitrophenol	ug/L	50	26.9	54	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	21.2	42	20-130	
3,3'-Dichlorobenzidine	ug/L	100	82.7	83	10-150	
3-Nitroaniline	ug/L	100	68.7	69	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	69.6	70	40-130	
4-Bromophenylphenyl ether	ug/L	50	32.5	65	30-130	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2944866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Chloro-3-methylphenol	ug/L	100	53.5	53	30-130	
4-Chloroaniline	ug/L	100	50.7	51	20-130	
4-Chlorophenylphenyl ether	ug/L	50	28.1	56	20-130	
4-Nitroaniline	ug/L	100	80.7	81	40-130	
4-Nitrophenol	ug/L	250	114	46	10-130	
Aniline	ug/L	50	19.6	39	20-130	
Benzoic Acid	ug/L	250	70.2	28	10-130	
Benzyl alcohol	ug/L	100	46.1	46	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	25.2	50	30-130	
bis(2-Chloroethyl) ether	ug/L	50	25.0	50	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	41.1	82	50-130	
Butylbenzylphthalate	ug/L	50	40.7	81	50-150	
Di-n-butylphthalate	ug/L	50	37.1	74	50-130	
Di-n-octylphthalate	ug/L	50	40.7	81	50-130	
Dibenzofuran	ug/L	50	27.5	55	40-130	
Diethylphthalate	ug/L	50	35.3	71	40-130	
Dimethylphthalate	ug/L	50	33.0	66	40-130	
Hexachloro-1,3-butadiene	ug/L	50	20.3	41	10-130	
Hexachlorobenzene	ug/L	50	31.6	63	30-130	
Hexachlorocyclopentadiene	ug/L	50	21.7	43	10-150	
Hexachloroethane	ug/L	50	19.4	39	10-130	
Isophorone	ug/L	50	24.0	48	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	23.1	46	30-130	
N-Nitrosodimethylamine	ug/L	50	20.2	40	10-130	
N-Nitrosodiphenylamine	ug/L	50	34.4	69	30-130	
Nitrobenzene	ug/L	50	26.2	52	20-130	
Pentachlorophenol	ug/L	100	72.1	72	10-140	
Phenol	ug/L	50	14.9	30	10-130	
2,4,6-Tribromophenol (S)	%			77	10-137	
2-Fluorobiphenyl (S)	%			55	13-130	
2-Fluorophenol (S)	%			43	10-130	
Nitrobenzene-d5 (S)	%			60	13-130	
Phenol-d6 (S)	%			34	10-130	
Terphenyl-d14 (S)	%			97	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944867 2944868

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	16.3	13.1	33	26	30-130	21	30	M1	
1,2-Dichlorobenzene	ug/L	ND	50	50	15.2	13.1	30	26	30-130	14	30	M1	
1,3-Dichlorobenzene	ug/L	ND	50	50	14.7	13.5	29	27	20-130	8	30		
1,4-Dichlorobenzene	ug/L	ND	50	50	15.8	13.8	32	28	30-130	14	30	M1	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	14.3	15.2	29	30	20-130	6	30		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944867												2944868	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92484369009 Result	Spike Conc.	Spike Conc.	MS Conc.								
2,4,5-Trichlorophenol	ug/L	ND	50	50	26.9	19.3	54	39	40-130	33	30	M1, R1	
2,4,6-Trichlorophenol	ug/L	ND	50	50	20.8	16.7	42	33	40-130	22	30	M1	
2,4-Dichlorophenol	ug/L	ND	50	50	17.9	15.5	36	31	31-130	15	30		
2,4-Dimethylphenol	ug/L	ND	50	50	18.5	18.0	37	36	30-130	3	30		
2,4-Dinitrophenol	ug/L	ND	250	250	170	138	68	55	30-130	21	30		
2,4-Dinitrotoluene	ug/L	ND	50	50	37.8	28.7	76	57	49-130	27	30		
2,6-Dinitrotoluene	ug/L	ND	50	50	32.4	24.7	65	49	50-130	27	30	M1	
2-Chloronaphthalene	ug/L	ND	50	50	17.6	16.9	35	34	30-130	4	30		
2-Chlorophenol	ug/L	ND	50	50	16.9	16.8	34	34	30-130	1	30		
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	15.5	16.9	31	34	30-130	9	30		
2-Nitroaniline	ug/L	ND	100	100	52.8	50.7	53	51	40-130	4	30	v1	
2-Nitrophenol	ug/L	ND	50	50	17.9	14.8	36	30	20-130	19	30		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	15.2	14.2	30	28	20-130	6	30		
3,3'-Dichlorobenzidine	ug/L	ND	100	100	84.6	74.7	85	75	10-150	12	30		
3-Nitroaniline	ug/L	ND	100	100	71.1	60.8	71	61	40-130	16	30		
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	76.9	59.9	77	60	40-130	25	30		
4-Bromophenylphenyl ether	ug/L	ND	50	50	30.7	19.2	61	38	30-130	46	30	R1	
4-Chloro-3-methylphenol	ug/L	ND	100	100	45.8	32.2	46	32	30-130	35	30	R1	
4-Chloroaniline	ug/L	ND	100	100	35.1	30.3	35	30	20-130	15	30		
4-Chlorophenylphenyl ether	ug/L	ND	50	50	23.5	15.7	47	31	20-130	40	30	R1	
4-Nitroaniline	ug/L	ND	100	100	84.9	73.6	85	74	40-130	14	30		
4-Nitrophenol	ug/L	ND	250	250	146	140	59	56	10-130	4	30		
Aniline	ug/L	ND	50	50	14.0	14.6	28	29	20-130	4	30		
Benzoic Acid	ug/L	ND	250	250	80.6	56.9	32	23	10-130	35	30	R1	
Benzyl alcohol	ug/L	ND	100	100	33.3	36.3	33	36	20-130	9	30		
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	16.9	16.4	34	33	30-130	3	30		
bis(2-Chloroethyl) ether	ug/L	ND	50	50	16.4	17.6	33	35	30-130	7	30		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	45.2	43.2	90	86	50-130	4	30		
Butylbenzylphthalate	ug/L	ND	50	50	46.3	43.4	93	87	50-150	6	30		
Di-n-butylphthalate	ug/L	ND	50	50	40.2	32.9	80	66	50-130	20	30		
Di-n-octylphthalate	ug/L	ND	50	50	45.9	37.7	92	75	50-130	20	30		
Dibenzofuran	ug/L	ND	50	50	21.4	15.5	43	31	40-130	32	30	M1, R1	
Diethylphthalate	ug/L	ND	50	50	38.3	31.4	73	59	40-130	20	30		
Dimethylphthalate	ug/L	ND	50	50	31.2	23.9	62	48	40-130	26	30		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	14.3	11.6	29	23	10-130	21	30		
Hexachlorobenzene	ug/L	ND	50	50	30.1	18.8	60	38	30-130	46	30	R1	
Hexachlorocyclopentadiene	ug/L	ND	50	50	14.4	13.2	29	26	10-150	9	30		
Hexachloroethane	ug/L	ND	50	50	13.1	10.2	26	20	10-130	24	30		
Isophorone	ug/L	ND	50	50	16.2	15.6	32	31	30-130	3	30		
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	15.2	13.8	30	28	30-130	9	30	M1	
N-Nitrosodimethylamine	ug/L	ND	50	50	16.0	16.4	32	33	10-130	2	30	v1	
N-Nitrosodiphenylamine	ug/L	ND	50	50	33.5	25.3	67	51	30-130	28	30		
Nitrobenzene	ug/L	ND	50	50	17.2	18.3	34	37	20-130	6	30		
Pentachlorophenol	ug/L	ND	100	100	79.0	63.2	79	63	10-140	22	30		

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2944867		2944868		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92484369009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Phenol	ug/L	ND	50	50	12.4	12.3	25	25	25	10-130	1	30	
2,4,6-Tribromophenol (S)	%							79	53	10-137			
2-Fluorobiphenyl (S)	%							37	36	13-130			
2-Fluorophenol (S)	%							32	32	10-130			
Nitrobenzene-d5 (S)	%							38	44	13-130			
Phenol-d6 (S)	%							28	25	10-130			
Terphenyl-d14 (S)	%							103	92	25-130			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

QC Batch: 554388

Analysis Method: EPA 8270E

QC Batch Method: EPA 3510C

Analysis Description: 8270E Water MSSV RVE

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540004

METHOD BLANK: 2945291

Matrix: Water

Associated Lab Samples: 92486540004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.6	07/20/20 16:27	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.4	07/20/20 16:27	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.4	07/20/20 16:27	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.5	07/20/20 16:27	
1-Methylnaphthalene	ug/L	ND	10.0	1.4	07/20/20 16:27	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	1.3	07/20/20 16:27	
2,4,5-Trichlorophenol	ug/L	ND	10.0	1.5	07/20/20 16:27	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.4	07/20/20 16:27	
2,4-Dichlorophenol	ug/L	ND	10.0	1.5	07/20/20 16:27	
2,4-Dimethylphenol	ug/L	ND	10.0	1.5	07/20/20 16:27	
2,4-Dinitrophenol	ug/L	ND	50.0	7.3	07/20/20 16:27	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.7	07/20/20 16:27	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.7	07/20/20 16:27	
2-Chloronaphthalene	ug/L	ND	10.0	1.4	07/20/20 16:27	
2-Chlorophenol	ug/L	ND	10.0	1.4	07/20/20 16:27	
2-Methylnaphthalene	ug/L	ND	10.0	1.4	07/20/20 16:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.2	07/20/20 16:27	
2-Nitroaniline	ug/L	ND	20.0	3.0	07/20/20 16:27	
2-Nitrophenol	ug/L	ND	10.0	1.7	07/20/20 16:27	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.2	07/20/20 16:27	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	2.7	07/20/20 16:27	
3-Nitroaniline	ug/L	ND	20.0	2.8	07/20/20 16:27	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	4.5	07/20/20 16:27	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.2	07/20/20 16:27	
4-Chloro-3-methylphenol	ug/L	ND	10.0	2.8	07/20/20 16:27	
4-Chloroaniline	ug/L	ND	20.0	2.8	07/20/20 16:27	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	1.5	07/20/20 16:27	
4-Nitroaniline	ug/L	ND	20.0	3.1	07/20/20 16:27	
4-Nitrophenol	ug/L	ND	50.0	9.4	07/20/20 16:27	
Acenaphthene	ug/L	ND	10.0	1.4	07/20/20 16:27	
Acenaphthylene	ug/L	ND	10.0	1.5	07/20/20 16:27	
Aniline	ug/L	ND	10.0	1.6	07/20/20 16:27	
Anthracene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Benzo(a)anthracene	ug/L	ND	10.0	1.5	07/20/20 16:27	
Benzo(a)pyrene	ug/L	ND	10.0	1.8	07/20/20 16:27	
Benzo(b)fluoranthene	ug/L	ND	10.0	1.7	07/20/20 16:27	
Benzo(g,h,i)perylene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Benzo(k)fluoranthene	ug/L	ND	10.0	1.5	07/20/20 16:27	
Benzoic Acid	ug/L	ND	50.0	19.5	07/20/20 16:27	
Benzyl alcohol	ug/L	ND	20.0	2.6	07/20/20 16:27	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

METHOD BLANK: 2945291

Matrix: Water

Associated Lab Samples: 92486540004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.3	07/20/20 16:27	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.7	07/20/20 16:27	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	2.0	07/20/20 16:27	
Butylbenzylphthalate	ug/L	ND	10.0	1.9	07/20/20 16:27	
Chrysene	ug/L	ND	10.0	1.4	07/20/20 16:27	
Di-n-butylphthalate	ug/L	ND	10.0	1.6	07/20/20 16:27	
Di-n-octylphthalate	ug/L	ND	10.0	2.2	07/20/20 16:27	
Dibenz(a,h)anthracene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Dibenzofuran	ug/L	ND	10.0	1.3	07/20/20 16:27	
Diethylphthalate	ug/L	ND	10.0	1.6	07/20/20 16:27	
Dimethylphthalate	ug/L	ND	10.0	1.4	07/20/20 16:27	
Fluoranthene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Fluorene	ug/L	ND	10.0	1.4	07/20/20 16:27	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Hexachlorobenzene	ug/L	ND	10.0	1.3	07/20/20 16:27	
Hexachlorocyclopentadiene	ug/L	ND	10.0	2.4	07/20/20 16:27	
Hexachloroethane	ug/L	ND	10.0	1.3	07/20/20 16:27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	1.7	07/20/20 16:27	
Isophorone	ug/L	ND	10.0	1.3	07/20/20 16:27	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	1.3	07/20/20 16:27	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.8	07/20/20 16:27	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.4	07/20/20 16:27	
Naphthalene	ug/L	ND	10.0	1.6	07/20/20 16:27	
Nitrobenzene	ug/L	ND	10.0	1.5	07/20/20 16:27	
Pentachlorophenol	ug/L	ND	20.0	2.8	07/20/20 16:27	
Phenanthrene	ug/L	ND	10.0	1.4	07/20/20 16:27	
Phenol	ug/L	ND	10.0	1.5	07/20/20 16:27	
Pyrene	ug/L	ND	10.0	1.5	07/20/20 16:27	
2,4,6-Tribromophenol (S)	%	54	10-137		07/20/20 16:27	
2-Fluorobiphenyl (S)	%	67	13-130		07/20/20 16:27	
2-Fluorophenol (S)	%	50	10-130		07/20/20 16:27	
Nitrobenzene-d5 (S)	%	68	13-130		07/20/20 16:27	
Phenol-d6 (S)	%	37	10-130		07/20/20 16:27	
Terphenyl-d14 (S)	%	129	25-130		07/20/20 16:27	

LABORATORY CONTROL SAMPLE: 2945292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.7	71	30-130	
1,2-Dichlorobenzene	ug/L	50	33.9	68	30-130	
1,3-Dichlorobenzene	ug/L	50	33.4	67	20-130	
1,4-Dichlorobenzene	ug/L	50	35.0	70	30-130	
1-Methylnaphthalene	ug/L	50	35.5	71	30-130	
2,2'-Oxybis(1-chloropropane)	ug/L	50	32.8	66	20-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2945292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	42.4	85	40-130	
2,4,6-Trichlorophenol	ug/L	50	40.8	82	40-130	
2,4-Dichlorophenol	ug/L	50	40.3	81	31-130	
2,4-Dimethylphenol	ug/L	50	41.6	83	30-130	
2,4-Dinitrophenol	ug/L	250	200	80	30-130	
2,4-Dinitrotoluene	ug/L	50	46.1	92	49-130	
2,6-Dinitrotoluene	ug/L	50	42.2	84	50-130	
2-Chloronaphthalene	ug/L	50	38.7	77	30-130	
2-Chlorophenol	ug/L	50	36.2	72	30-130	
2-Methylnaphthalene	ug/L	50	37.2	74	30-130	
2-Methylphenol(o-Cresol)	ug/L	50	34.1	68	30-130	
2-Nitroaniline	ug/L	100	77.9	78	40-130	
2-Nitrophenol	ug/L	50	39.3	79	20-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.5	65	20-130	
3,3'-Dichlorobenzidine	ug/L	100	94.7	95	10-150	
3-Nitroaniline	ug/L	100	86.1	86	40-130	
4,6-Dinitro-2-methylphenol	ug/L	100	98.7	99	40-130	
4-Bromophenylphenyl ether	ug/L	50	43.5	87	30-130	
4-Chloro-3-methylphenol	ug/L	100	74.2	74	30-130	
4-Chloroaniline	ug/L	100	76.7	77	20-130	
4-Chlorophenylphenyl ether	ug/L	50	39.0	78	20-130	
4-Nitroaniline	ug/L	100	95.9	96	40-130	
4-Nitrophenol	ug/L	250	123	49	10-130	
Acenaphthene	ug/L	50	39.5	79	30-130	
Acenaphthylene	ug/L	50	39.9	80	30-130	
Aniline	ug/L	50	32.2	64	20-130	
Anthracene	ug/L	50	49.6	99	50-130	
Benzo(a)anthracene	ug/L	50	52.9	106	50-130	
Benzo(a)pyrene	ug/L	50	55.2	110	50-130	
Benzo(b)fluoranthene	ug/L	50	53.8	108	50-130	
Benzo(g,h,i)perylene	ug/L	50	54.7	109	50-130	
Benzo(k)fluoranthene	ug/L	50	55.8	112	50-130	
Benzoic Acid	ug/L	250	96.0	38	10-130	
Benzyl alcohol	ug/L	100	70.3	70	20-130	
bis(2-Chloroethoxy)methane	ug/L	50	37.4	75	30-130	
bis(2-Chloroethyl) ether	ug/L	50	37.1	74	30-130	
bis(2-Ethylhexyl)phthalate	ug/L	50	51.3	103	50-130	
Butylbenzylphthalate	ug/L	50	48.9	98	50-150	
Chrysene	ug/L	50	53.4	107	50-130	
Di-n-butylphthalate	ug/L	50	48.6	97	50-130	
Di-n-octylphthalate	ug/L	50	52.1	104	50-130	
Dibenz(a,h)anthracene	ug/L	50	55.2	110	40-130	
Dibenzofuran	ug/L	50	39.4	79	40-130	
Diethylphthalate	ug/L	50	43.1	86	40-130	
Dimethylphthalate	ug/L	50	41.7	83	40-130	
Fluoranthene	ug/L	50	51.5	103	30-130	
Fluorene	ug/L	50	41.3	83	20-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2945292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloro-1,3-butadiene	ug/L	50	33.4	67	10-130	
Hexachlorobenzene	ug/L	50	43.7	87	30-130	
Hexachlorocyclopentadiene	ug/L	50	35.0	70	10-150	
Hexachloroethane	ug/L	50	31.9	64	10-130	
Indeno(1,2,3-cd)pyrene	ug/L	50	54.5	109	40-130	
Isophorone	ug/L	50	36.7	73	30-130	
N-Nitroso-di-n-propylamine	ug/L	50	34.5	69	30-130	
N-Nitrosodimethylamine	ug/L	50	30.5	61	10-130	
N-Nitrosodiphenylamine	ug/L	50	46.5	93	30-130	
Naphthalene	ug/L	50	36.8	74	20-130	
Nitrobenzene	ug/L	50	38.0	76	20-130	
Pentachlorophenol	ug/L	100	95.8	96	10-140	
Phenanthrene	ug/L	50	49.4	99	50-130	
Phenol	ug/L	50	22.9	46	10-130	
Pyrene	ug/L	50	52.6	105	50-130	
2,4,6-Tribromophenol (S)	%			108	10-137	
2-Fluorobiphenyl (S)	%			90	13-130	
2-Fluorophenol (S)	%			63	10-130	
Nitrobenzene-d5 (S)	%			88	13-130	
Phenol-d6 (S)	%			49	10-130	
Terphenyl-d14 (S)	%			129	25-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2945293 2945294

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92486540004 Result	Spike Conc.	Spike Conc.	Conc.								
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50	27.7	24.8	55	50	30-130	11	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	50	26.3	23.0	53	46	30-130	14	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	50	25.6	22.2	51	44	20-130	15	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	50	27.2	23.8	54	48	30-130	13	30	
1-Methylnaphthalene	ug/L	ND	50	50	50	28.3	25.5	57	51	30-130	10	30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	50	50	24.6	21.9	49	44	20-130	11	30	
2,4,5-Trichlorophenol	ug/L	ND	50	50	50	32.1	29.4	64	59	40-130	9	30	
2,4,6-Trichlorophenol	ug/L	ND	50	50	50	30.6	26.0	61	52	40-130	16	30	
2,4-Dichlorophenol	ug/L	ND	50	50	50	31.2	27.2	62	54	31-130	14	30	
2,4-Dimethylphenol	ug/L	ND	50	50	50	31.3	28.2	63	56	30-130	10	30	
2,4-Dinitrophenol	ug/L	ND	250	250	250	140	115	56	46	30-130	20	30	
2,4-Dinitrotoluene	ug/L	ND	50	50	50	37.8	40.1	76	80	49-130	6	30	
2,6-Dinitrotoluene	ug/L	ND	50	50	50	32.7	33.3	65	67	50-130	2	30	
2-Chloronaphthalene	ug/L	ND	50	50	50	30.9	27.0	62	54	30-130	13	30	
2-Chlorophenol	ug/L	ND	50	50	50	27.3	24.1	55	48	30-130	12	30	
2-Methylnaphthalene	ug/L	ND	50	50	50	29.8	26.4	60	53	30-130	12	30	
2-Methylphenol(o-Cresol)	ug/L	ND	50	50	50	26.0	23.3	52	47	30-130	11	30	
2-Nitroaniline	ug/L	ND	100	100	100	60.7	58.3	61	58	40-130	4	30	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2945293		2945294		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92486540004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
2-Nitrophenol	ug/L	ND	50	50	30.4	26.8	61	54	20-130	13	30		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	50	24.1	21.6	48	43	20-130	11	30		
3,3'-Dichlorobenzidine	ug/L	ND	100	100	69.7	90.2	70	90	10-150	26	30		
3-Nitroaniline	ug/L	ND	100	100	64.5	69.9	64	70	40-130	8	30		
4,6-Dinitro-2-methylphenol	ug/L	ND	100	100	74.5	67.8	75	68	40-130	9	30		
4-Bromophenylphenyl ether	ug/L	ND	50	50	32.3	33.1	65	66	30-130	2	30		
4-Chloro-3-methylphenol	ug/L	ND	100	100	56.0	53.3	56	53	30-130	5	30		
4-Chloroaniline	ug/L	ND	100	100	47.3	52.5	47	53	20-130	10	30		
4-Chlorophenylphenyl ether	ug/L	ND	50	50	30.2	28.7	60	57	20-130	5	30		
4-Nitroaniline	ug/L	ND	100	100	83.3	88.5	83	88	40-130	6	30		
4-Nitrophenol	ug/L	ND	250	250	97.7	86.5	39	35	10-130	12	30		
Acenaphthene	ug/L	ND	50	50	31.3	28.3	63	57	30-130	10	30		
Acenaphthylene	ug/L	ND	50	50	31.8	28.7	64	57	30-130	10	30		
Aniline	ug/L	ND	50	50	18.9	21.4	38	43	20-130	13	30		
Anthracene	ug/L	ND	50	50	37.7	39.1	75	78	50-130	4	30		
Benzo(a)anthracene	ug/L	ND	50	50	47.3	50.3	95	101	50-130	6	30		
Benzo(a)pyrene	ug/L	ND	50	50	48.6	51.7	97	103	50-130	6	30		
Benzo(b)fluoranthene	ug/L	ND	50	50	48.9	50.2	98	100	50-130	3	30		
Benzo(g,h,i)perylene	ug/L	ND	50	50	49.2	51.8	98	104	50-130	5	30		
Benzo(k)fluoranthene	ug/L	ND	50	50	50.5	52.8	101	106	50-130	4	30		
Benzoic Acid	ug/L	ND	250	250	55.3	34.2J	22	14	10-130		30		
Benzyl alcohol	ug/L	ND	100	100	53.1	48.1	53	48	20-130	10	30		
bis(2-Chloroethoxy)methane	ug/L	ND	50	50	28.0	24.9	56	50	30-130	11	30		
bis(2-Chloroethyl) ether	ug/L	ND	50	50	27.1	24.8	54	50	30-130	9	30		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	50	45.1	47.9	90	96	50-130	6	30		
Butylbenzylphthalate	ug/L	ND	50	50	45.3	47.4	91	95	50-150	4	30		
Chrysene	ug/L	ND	50	50	48.4	50.4	97	101	50-130	4	30		
Di-n-butylphthalate	ug/L	ND	50	50	42.1	44.3	84	89	50-130	5	30		
Di-n-octylphthalate	ug/L	ND	50	50	48.0	49.7	96	99	50-130	3	30		
Dibenz(a,h)anthracene	ug/L	ND	50	50	49.9	52.2	100	104	40-130	4	30		
Dibenzofuran	ug/L	ND	50	50	31.2	28.7	62	57	40-130	8	30		
Diethylphthalate	ug/L	ND	50	50	33.8	36.8	68	74	40-130	8	30		
Dimethylphthalate	ug/L	ND	50	50	31.9	34.1	64	68	40-130	7	30		
Fluoranthene	ug/L	ND	50	50	44.7	46.8	89	94	30-130	5	30		
Fluorene	ug/L	ND	50	50	31.7	30.5	63	61	20-130	4	30		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	25.0	22.4	50	45	10-130	11	30		
Hexachlorobenzene	ug/L	ND	50	50	32.6	33.5	65	67	30-130	3	30		
Hexachlorocyclopentadiene	ug/L	ND	50	50	27.8	23.5	56	47	10-150	17	30		
Hexachloroethane	ug/L	ND	50	50	23.2	20.5	46	41	10-130	12	30		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	50	48.9	50.9	98	102	40-130	4	30		
Isophorone	ug/L	ND	50	50	28.4	25.8	57	52	30-130	10	30		
N-Nitroso-di-n-propylamine	ug/L	ND	50	50	26.2	22.8	52	46	30-130	14	30		
N-Nitrosodimethylamine	ug/L	ND	50	50	23.8	20.8	48	42	10-130	14	30		
N-Nitrosodiphenylamine	ug/L	ND	50	50	34.0	34.9	68	70	30-130	2	30		

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2945293		2945294		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92486540004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Naphthalene	ug/L	ND	50	50	29.1	25.7	58	51	20-130	12	30		
Nitrobenzene	ug/L	ND	50	50	29.4	26.5	59	53	20-130	10	30		
Pentachlorophenol	ug/L	ND	100	100	74.1	66.6	74	67	10-140	11	30		
Phenanthrene	ug/L	ND	50	50	37.5	39.2	75	78	50-130	4	30		
Phenol	ug/L	ND	50	50	16.3	14.4	33	29	10-130	12	30		
Pyrene	ug/L	ND	50	50	45.9	48.8	92	98	50-130	6	30		
2,4,6-Tribromophenol (S)	%						74	75	10-137				
2-Fluorobiphenyl (S)	%						68	59	13-130				
2-Fluorophenol (S)	%						46	39	10-130				
Nitrobenzene-d5 (S)	%						66	58	13-130				
Phenol-d6 (S)	%						36	31	10-130				
Terphenyl-d14 (S)	%						113	118	25-130				

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

QC Batch:	553986	Analysis Method:	EPA 8270E by SIM
QC Batch Method:	EPA 3511	Analysis Description:	8270E 3511 Low Volume PAH SIM
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540004, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540013

METHOD BLANK: 2943287 Matrix: Water

Associated Lab Samples: 92486540001, 92486540002, 92486540003, 92486540004, 92486540007, 92486540008, 92486540009, 92486540010, 92486540011, 92486540013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.80	0.0074	07/17/20 11:26	
2-Methylnaphthalene	ug/L	ND	0.80	0.023	07/17/20 11:26	
Acenaphthene	ug/L	ND	0.50	0.0084	07/17/20 11:26	
Acenaphthylene	ug/L	ND	0.50	0.018	07/17/20 11:26	
Anthracene	ug/L	ND	0.050	0.014	07/17/20 11:26	
Benzo(a)anthracene	ug/L	ND	0.050	0.046	07/17/20 11:26	
Benzo(a)pyrene	ug/L	ND	0.10	0.0090	07/17/20 11:26	
Benzo(b)fluoranthene	ug/L	ND	0.050	0.017	07/17/20 11:26	
Benzo(g,h,i)perylene	ug/L	ND	0.20	0.013	07/17/20 11:26	
Benzo(k)fluoranthene	ug/L	ND	0.20	0.014	07/17/20 11:26	
Chrysene	ug/L	ND	0.10	0.032	07/17/20 11:26	
Dibenz(a,h)anthracene	ug/L	ND	0.15	0.011	07/17/20 11:26	
Fluoranthene	ug/L	ND	0.30	0.015	07/17/20 11:26	
Fluorene	ug/L	ND	0.31	0.012	07/17/20 11:26	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.050	0.011	07/17/20 11:26	
Naphthalene	ug/L	ND	1.5	0.015	07/17/20 11:26	
Phenanthrene	ug/L	ND	0.20	0.030	07/17/20 11:26	
Pyrene	ug/L	ND	0.10	0.052	07/17/20 11:26	
2-Fluorobiphenyl (S)	%	111	45-150		07/17/20 11:26	
Nitrobenzene-d5 (S)	%	110	57-164		07/17/20 11:26	
Terphenyl-d14 (S)	%	121	38-153		07/17/20 11:26	

LABORATORY CONTROL SAMPLE: 2943288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2.5	2.1	85	70-130	
2-Methylnaphthalene	ug/L	2.5	2.4	94	70-130	
Acenaphthene	ug/L	2.5	2.5	99	70-130	
Acenaphthylene	ug/L	2.5	2.5	101	70-130	
Anthracene	ug/L	2.5	2.7	108	70-130	
Benzo(a)anthracene	ug/L	2.5	2.8	111	70-130	
Benzo(a)pyrene	ug/L	2.5	2.8	110	70-130	
Benzo(b)fluoranthene	ug/L	2.5	2.7	109	70-130	
Benzo(g,h,i)perylene	ug/L	2.5	2.5	102	70-130	
Benzo(k)fluoranthene	ug/L	2.5	2.6	102	70-130	
Chrysene	ug/L	2.5	2.9	117	70-130	
Dibenz(a,h)anthracene	ug/L	2.5	2.7	107	70-130	

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2943288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoranthene	ug/L	2.5	2.7	110	70-130	
Fluorene	ug/L	2.5	2.7	107	70-130	
Indeno(1,2,3-cd)pyrene	ug/L	2.5	2.7	108	70-130	
Naphthalene	ug/L	2.5	2.3	92	70-130	
Phenanthrene	ug/L	2.5	2.6	106	70-130	
Pyrene	ug/L	2.5	2.7	109	70-130	
2-Fluorobiphenyl (S)	%			113	45-150	
Nitrobenzene-d5 (S)	%			104	57-164	
Terphenyl-d14 (S)	%			115	38-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943289 2943290

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92485807003 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/L	0.58J	2.5	2.5	2.5	3.2	3.1	104	101	70-130	2	30	
2-Methylnaphthalene	ug/L	0.75J	2.5	2.5	2.5	3.5	3.4	108	106	70-130	1	30	
Acenaphthene	ug/L	ND	2.5	2.5	2.5	2.6	2.5	102	99	70-130	3	30	
Acenaphthylene	ug/L	ND	2.5	2.5	2.5	2.6	2.5	104	100	70-130	4	30	
Anthracene	ug/L	ND	2.5	2.5	2.5	3.0	2.9	119	116	70-130	3	30	
Benzo(a)anthracene	ug/L	ND	2.5	2.5	2.5	2.9	2.8	116	112	70-130	3	30	
Benzo(a)pyrene	ug/L	ND	2.5	2.5	2.5	2.8	2.8	114	111	70-130	2	30	
Benzo(b)fluoranthene	ug/L	ND	2.5	2.5	2.5	2.7	2.6	109	105	70-130	4	30	
Benzo(g,h,i)perylene	ug/L	ND	2.5	2.5	2.5	2.5	2.5	101	99	70-130	2	30	
Benzo(k)fluoranthene	ug/L	ND	2.5	2.5	2.5	2.6	2.6	105	104	70-130	1	30	
Chrysene	ug/L	ND	2.5	2.5	2.5	3.0	2.9	120	117	70-130	2	30	
Dibenz(a,h)anthracene	ug/L	ND	2.5	2.5	2.5	2.7	2.6	107	105	70-130	2	30	
Fluoranthene	ug/L	ND	2.5	2.5	2.5	2.9	2.7	114	108	70-130	5	30	
Fluorene	ug/L	0.056J	2.5	2.5	2.5	2.6	2.5	102	99	70-130	3	30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.5	2.5	2.5	2.7	2.7	109	107	70-130	1	30	
Naphthalene	ug/L	0.40J	2.5	2.5	2.5	2.8	2.8	97	94	70-130	2	30	
Phenanthrene	ug/L	ND	2.5	2.5	2.5	2.8	2.7	113	108	70-130	4	30	
Pyrene	ug/L	ND	2.5	2.5	2.5	2.8	2.7	111	107	70-130	4	30	
2-Fluorobiphenyl (S)	%							97	93	45-150			
Nitrobenzene-d5 (S)	%							106	100	57-164			
Terphenyl-d14 (S)	%							120	115	38-153			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943754 2943755

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92486540004 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/L	ND	2.5	2.5	2.5	2.5	2.6	99	103	70-130	5	30	
2-Methylnaphthalene	ug/L	ND	2.5	2.5	2.5	2.7	2.9	107	114	70-130	6	30	
Acenaphthene	ug/L	ND	2.5	2.5	2.5	2.8	2.7	114	110	70-130	3	30	
Acenaphthylene	ug/L	ND	2.5	2.5	2.5	2.9	2.7	114	110	70-130	4	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Parameter	Units	2943754		2943755		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92486540004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Anthracene	ug/L	ND	2.5	2.5	3.1	3.1	123	123	70-130	0	30		
Benzo(a)anthracene	ug/L	ND	2.5	2.5	3.2	3.0	126	118	70-130	6	30		
Benzo(a)pyrene	ug/L	ND	2.5	2.5	3.1	2.9	123	117	70-130	5	30		
Benzo(b)fluoranthene	ug/L	ND	2.5	2.5	2.8	2.7	112	108	70-130	4	30		
Benzo(g,h,i)perylene	ug/L	ND	2.5	2.5	2.8	2.7	110	108	70-130	2	30		
Benzo(k)fluoranthene	ug/L	ND	2.5	2.5	3.0	2.7	119	107	70-130	11	30		
Chrysene	ug/L	ND	2.5	2.5	3.3	3.1	132	124	70-130	7	30	M1	
Dibenz(a,h)anthracene	ug/L	ND	2.5	2.5	2.9	2.9	118	115	70-130	3	30		
Fluoranthene	ug/L	ND	2.5	2.5	3.2	3.2	128	129	70-130	1	30		
Fluorene	ug/L	ND	2.5	2.5	3.1	3.0	124	121	70-130	3	30		
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.5	2.5	3.0	2.9	120	115	70-130	4	30		
Naphthalene	ug/L	ND	2.5	2.5	2.6	2.6	105	103	70-130	2	30		
Phenanthrene	ug/L	ND	2.5	2.5	2.9	2.9	117	117	70-130	0	30		
Pyrene	ug/L	ND	2.5	2.5	3.2	3.2	128	127	70-130	1	30		
2-Fluorobiphenyl (S)	%							136	134	45-150			
Nitrobenzene-d5 (S)	%							123	123	57-164			
Terphenyl-d14 (S)	%							116	124	38-153			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399  
 Pace Project No.: 92486540

QC Batch: 554401 Analysis Method: EPA 8270E by SIM  
 QC Batch Method: EPA 3511 Analysis Description: 8270E 3511 Low Volume PAH SIM  
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92486540005, 92486540006, 92486540012

METHOD BLANK: 2945325 Matrix: Water

Associated Lab Samples: 92486540005, 92486540006, 92486540012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.80	0.0074	07/23/20 15:17	
2-Methylnaphthalene	ug/L	ND	0.80	0.023	07/23/20 15:17	
Acenaphthene	ug/L	ND	0.50	0.0084	07/23/20 15:17	
Acenaphthylene	ug/L	ND	0.50	0.018	07/23/20 15:17	
Anthracene	ug/L	ND	0.050	0.014	07/23/20 15:17	
Benzo(a)anthracene	ug/L	ND	0.050	0.046	07/23/20 15:17	
Benzo(a)pyrene	ug/L	ND	0.10	0.0090	07/23/20 15:17	
Benzo(b)fluoranthene	ug/L	ND	0.050	0.017	07/23/20 15:17	
Benzo(g,h,i)perylene	ug/L	ND	0.20	0.013	07/23/20 15:17	
Benzo(k)fluoranthene	ug/L	ND	0.20	0.014	07/23/20 15:17	
Chrysene	ug/L	ND	0.10	0.032	07/23/20 15:17	
Dibenz(a,h)anthracene	ug/L	ND	0.15	0.011	07/23/20 15:17	
Fluoranthene	ug/L	ND	0.30	0.015	07/23/20 15:17	
Fluorene	ug/L	ND	0.31	0.012	07/23/20 15:17	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.050	0.011	07/23/20 15:17	
Naphthalene	ug/L	ND	1.5	0.015	07/23/20 15:17	
Phenanthrene	ug/L	ND	0.20	0.030	07/23/20 15:17	
Pyrene	ug/L	ND	0.10	0.052	07/23/20 15:17	
2-Fluorobiphenyl (S)	%	89	45-150		07/23/20 15:17	
Nitrobenzene-d5 (S)	%	101	57-164		07/23/20 15:17	
Terphenyl-d14 (S)	%	108	38-153		07/23/20 15:17	

LABORATORY CONTROL SAMPLE: 2945326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2.5	2.5	101	70-130	
2-Methylnaphthalene	ug/L	2.5	2.8	111	70-130	
Acenaphthene	ug/L	2.5	3.0	121	70-130	
Acenaphthylene	ug/L	2.5	3.1	123	70-130	
Anthracene	ug/L	2.5	3.1	124	70-130	
Benzo(a)anthracene	ug/L	2.5	3.1	122	70-130	
Benzo(a)pyrene	ug/L	2.5	3.1	125	70-130	
Benzo(b)fluoranthene	ug/L	2.5	3.1	125	70-130	
Benzo(g,h,i)perylene	ug/L	2.5	3.4	135	70-130 L1	
Benzo(k)fluoranthene	ug/L	2.5	3.3	134	70-130 L1	
Chrysene	ug/L	2.5	3.0	120	70-130	
Dibenz(a,h)anthracene	ug/L	2.5	3.8	151	70-130 L1	
Fluoranthene	ug/L	2.5	3.1	124	70-130	
Fluorene	ug/L	2.5	3.0	121	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

LABORATORY CONTROL SAMPLE: 2945326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2.5	3.7	149	70-130	L1
Naphthalene	ug/L	2.5	2.9	116	70-130	
Phenanthrene	ug/L	2.5	3.0	121	70-130	
Pyrene	ug/L	2.5	3.1	122	70-130	
2-Fluorobiphenyl (S)	%			104	45-150	
Nitrobenzene-d5 (S)	%			115	57-164	
Terphenyl-d14 (S)	%			121	38-153	

MATRIX SPIKE SAMPLE: 2945327

Parameter	Units	92486540005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	0.044J	2.5	2.3	91	70-130	
2-Methylnaphthalene	ug/L	0.057J	2.5	2.5	97	70-130	
Acenaphthene	ug/L	ND	2.5	2.7	108	70-130	
Acenaphthylene	ug/L	ND	2.5	2.6	104	70-130	
Anthracene	ug/L	ND	2.5	2.7	107	70-130	
Benzo(a)anthracene	ug/L	ND	2.5	2.6	104	70-130	
Benzo(a)pyrene	ug/L	ND	2.5	2.5	99	70-130	
Benzo(b)fluoranthene	ug/L	ND	2.5	2.4	96	70-130	
Benzo(g,h,i)perylene	ug/L	ND	2.5	2.4	96	70-130	
Benzo(k)fluoranthene	ug/L	ND	2.5	2.5	101	70-130	
Chrysene	ug/L	ND	2.5	2.6	104	70-130	
Dibenz(a,h)anthracene	ug/L	ND	2.5	2.5	101	70-130	
Fluoranthene	ug/L	ND	2.5	2.9	114	70-130	
Fluorene	ug/L	ND	2.5	2.7	106	70-130	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.5	2.6	103	70-130	
Naphthalene	ug/L	0.22J	2.5	2.7J	100	70-130	
Phenanthrene	ug/L	ND	2.5	2.7	108	70-130	
Pyrene	ug/L	ND	2.5	2.8	112	70-130	
2-Fluorobiphenyl (S)	%				100	45-150	
Nitrobenzene-d5 (S)	%				106	57-164	
Terphenyl-d14 (S)	%				92	38-153	

SAMPLE DUPLICATE: 2945328

Parameter	Units	92486540006 Result	Dup Result	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	0.049J	0.063J		30	
2-Methylnaphthalene	ug/L	ND	ND		30	
Acenaphthene	ug/L	ND	ND		30	
Acenaphthylene	ug/L	ND	ND		30	
Anthracene	ug/L	ND	ND		30	
Benzo(a)anthracene	ug/L	ND	ND		30	
Benzo(a)pyrene	ug/L	ND	ND		30	
Benzo(b)fluoranthene	ug/L	ND	ND		30	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

SAMPLE DUPLICATE: 2945328

Parameter	Units	92486540006 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzo(g,h,i)perylene	ug/L	ND	ND		30	
Benzo(k)fluoranthene	ug/L	ND	ND		30	
Chrysene	ug/L	ND	ND		30	
Dibenz(a,h)anthracene	ug/L	ND	ND		30	
Fluoranthene	ug/L	ND	ND		30	
Fluorene	ug/L	ND	ND		30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND		30	
Naphthalene	ug/L	0.079J	0.093J		30	
Phenanthrene	ug/L	ND	ND		30	
Pyrene	ug/L	ND	ND		30	
2-Fluorobiphenyl (S)	%	95	96			
Nitrobenzene-d5 (S)	%	102	94			
Terphenyl-d14 (S)	%	105	108			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

IK The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

v2 The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: FORMER BRAMLETTE MGP J20070399

Pace Project No.: 92486540

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92486540001	MW-43BR_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540002	MW-43TZ_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540003	MW-43S_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540004	MW-44TZ_WG_20200714 MS/MSD	EPA 3510C	554388	EPA 8270E	554499
92486540005	MW-44BR_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540006	MW-38BR_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540007	MW-38S_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540008	MW-46BR_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540009	MW-47BR_WG_20200715	EPA 3510C	554292	EPA 8270E	554521
92486540010	MW-45BR_WG_20200715	EPA 3510C	554292	EPA 8270E	554521
92486540011	MW-35BR_WG_20200715	EPA 3510C	554292	EPA 8270E	554521
92486540012	FB-01_WQ_20200715	EPA 3510C	554292	EPA 8270E	554521
92486540013	FD-01_WG_20200714	EPA 3510C	554292	EPA 8270E	554521
92486540001	MW-43BR_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540002	MW-43TZ_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540003	MW-43S_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540004	MW-44TZ_WG_20200714 MS/MSD	EPA 3511	553986	EPA 8270E by SIM	554067
92486540005	MW-44BR_WG_20200714	EPA 3511	554401	EPA 8270E by SIM	554503
92486540006	MW-38BR_WG_20200714	EPA 3511	554401	EPA 8270E by SIM	554503
92486540007	MW-38S_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540008	MW-46BR_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540009	MW-47BR_WG_20200715	EPA 3511	553986	EPA 8270E by SIM	554067
92486540010	MW-45BR_WG_20200715	EPA 3511	553986	EPA 8270E by SIM	554067
92486540011	MW-35BR_WG_20200715	EPA 3511	553986	EPA 8270E by SIM	554067
92486540012	FB-01_WQ_20200715	EPA 3511	554401	EPA 8270E by SIM	554503
92486540013	FD-01_WG_20200714	EPA 3511	553986	EPA 8270E by SIM	554067
92486540001	MW-43BR_WG_20200714	EPA 8260D	554392		
92486540002	MW-43TZ_WG_20200714	EPA 8260D	554392		
92486540003	MW-43S_WG_20200714	EPA 8260D	554392		
92486540004	MW-44TZ_WG_20200714 MS/MSD	EPA 8260D	554392		
92486540005	MW-44BR_WG_20200714	EPA 8260D	554756		
92486540006	MW-38BR_WG_20200714	EPA 8260D	554756		
92486540007	MW-38S_WG_20200714	EPA 8260D	554756		
92486540008	MW-46BR_WG_20200714	EPA 8260D	554756		
92486540009	MW-47BR_WG_20200715	EPA 8260D	554756		
92486540010	MW-45BR_WG_20200715	EPA 8260D	554756		
92486540011	MW-35BR_WG_20200715	EPA 8260D	554756		
92486540012	FB-01_WQ_20200715	EPA 8260D	554392		
92486540013	FD-01_WG_20200714	EPA 8260D	554756		
92486540014	TB-01_WQ_20200715	EPA 8260D	554514		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt(SCUR)</b>	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: <b>F-CAR-CS-033-Rev.06</b>	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

*Synterra*

Project #:

**WO# : 92486540**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *7-16-20 AR*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer: *93-T061* Type of Ice:  Wet  Blue  None

Cooler Temp (°C): *4.0* Correction Factor: Add/Subtract (°C) *0*

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.0*

USDA Regulated Soil  N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>WT</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No


Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_

	Document Name:	Document Revised: February 7, 2018
	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

**WO# : 92486540**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

PM: KLH1

Due Date: 07/22/20

\*\*Bottom half of box is to list number of bottle

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	AGOU	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																														
2																														
3																														
4																														
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10																														
11																														
12																														

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





Document Name:  
**Sample Condition Upon Receipt(SCUR)**  
 Document No.:  
**F-CAR-CS-033-Rev.06**

Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority:  
 Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

**WO# : 92486540**

PM: KLH1

Due Date: 07/22/20

CLIENT: 92-Duke Ener

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	AGOU	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																3													
2																3													
3																3													
4																2													
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Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:

Company: Synterra  
 Address: 148 River Street  
 Suite 220, Greenville, SC 29601  
 Email: jacobson@synterracorp.com  
 Phone: (864)527-4678  
 Fax: [Blank]  
 Requested Due Date: [Blank]

**Section B**  
 Required Project Information:

Report To: Richard Jacobs  
 Copy To: [Blank]  
 Purchase Order #: [Blank]  
 Project Name: Former Bramlette MSP  
 Project #:

**Section C**  
 Invoice Information:

Attention: [Blank]  
 Company Name: Pace Quora  
 Address: Pace Project Manager  
 Kevin Herring@pacelabs.com  
 Pace Profile #: 7754  
 Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9, -, ) Sample IDs must be unique	MATRIX Drinking Water Waste Water Product Oil Wipe Air Tissue	CODE DW WW P SL OC WP AQ TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyse Test	Y/N	Residual Chlorine (Y/N)	
						START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	MW-4131R-W17-20200714					7-14	0824		5										
2	MW-4157E-W17-20200714					7-14	0900		1										
3	MW-4155-W17-20200714					7-14	0937		3										
4	MW-417E-W17-20200714					7-14	1034												
5	MW-417E-W17-20200714-MS					7-14	1034												
6	MW-417E-W17-20200714-MSD					7-14	1034												
7	MW-4131R-W17-20200714					7-14	1200												
8	MW-4131R-W17-20200714					7-14	1329												
9	MW-4131R-W17-20200714					7-14	1403												
10	MW-4131R-W17-20200714					7-14	1452												
11	MW-4131R-W17-20200715					7-15	0953												
12	MW-4131R-W17-20200715					7-15	1055												

REMOVED BY / AFFILIATION: *Madhvi Sarda* DATE: 7-15-20 TIME: 1525  
 ACCEPTED BY / AFFILIATION: *OPC - Pace* DATE: 7-15-20 TIME: 1525  
 SIGNATURE OF SAMPLER: *OPC / Pace* DATE SIGNED: 7-16-20 1300  
 SIGNATURE OF SAMPLER: *A. R. ...* DATE SIGNED: 7-16-20 1300

TEMP in C: 4.0  
 Received on Ice (Y/N): Y  
 Custody Sealed Cooler (Y/N): N  
 Samples Intact (Y/N): Y





## ANALYTICAL REPORT

Lab Number:	L2037437
Client:	Duke Energy Corporation 148 River Street Suite 220 Greenville, SC 29601
ATTN:	Tom King
Phone:	(864) 421-9999
Project Name:	FORMER BRAMLETTE MGP SITE
Project Number:	MGPBRAM
Report Date:	09/30/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2037437-01	REF1_SE_20200909	SEDIMENT	400 E. BRAMLETTE RD., GREENVILLE, SC	09/09/20 10:45	09/10/20
L2037437-02	SW_SE_20200909	SEDIMENT	400 E. BRAMLETTE RD., GREENVILLE, SC	09/09/20 11:40	09/10/20

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

---



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

### Case Narrative (continued)

#### Report Submission

Final Report: September 30, 2020.

Preliminary Report: September 17, 2020.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Semivolatile Organics

L2037437: Samples were frozen upon receipt in order to arrest the holding time.

L2037437-01 and -02: The samples have elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

The WG1414420-2/-3 LCS/LCSD recoveries, associated with L2037437-01, are below the acceptance criteria for benzidine (9%/9%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1408773-2/-3 LCS/LCSD recoveries, associated with L2037437-02, are below the acceptance criteria for benzoic acid (0%/3%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

The WG1408773-4/-5 MS/MSD recoveries, performed on L2037437-02, are outside the acceptance criteria for several compounds; however, the associated LCS/LCSD recoveries are within overall method allowances.

WG1408773-4/-5 MS/MSD: The samples have elevated detection limits due to the dilution required by the sample matrix.

The surrogate recoveries for the WG1408773-5 MS, performed on L2037437-02, are outside the acceptance criteria for phenol-d5 (28%) and 2-fluorophenol (24%).

#### Alkylated PAHs

The WG1408763-4/-5 MS/MSD recoveries and RPDs, performed on L2037437-02, are outside the acceptance criteria for the majority of compounds. The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample. Dilutions for this MS/MSD QC will



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Case Narrative (continued)**


be performed and these results will be reported in the final report.

Saturated Hydrocarbons

The WG1408763-4/-5 MS/MSD recoveries, performed on L2037437-02, are outside the acceptance criteria for nonane (C9) (44%/44%) and octadecane (C18) (30%/251%). The associated LCS/LCSD met the criteria, no further action was required.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 09/30/20

# ORGANICS

# VOLATILES

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260B  
 Analytical Date: 09/16/20 17:16  
 Analyst: RY  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	2.52	0.374	1
Isopentane	ND		ug/kg	2.52	0.461	1
1-Pentene	ND		ug/kg	2.52	0.460	1
2-Methyl-1-Butene	ND		ug/kg	2.52	0.392	1
Pentane	ND		ug/kg	2.52	0.786	1
trans-2-Pentene	ND		ug/kg	2.52	0.340	1
Isoprene	ND		ug/kg	2.52	0.450	1
cis-2-Pentene	ND		ug/kg	2.52	0.405	1
Tertiary Butanol	ND		ug/kg	31.5	4.08	1
2,2-Dimethylbutane	ND		ug/kg	2.52	0.777	1
4-Methyl-1-pentene	ND		ug/kg	2.52	0.392	1
Cyclopentane	ND		ug/kg	2.52	0.654	1
2,3-Dimethylbutane	ND		ug/kg	2.52	1.04	1
2-Methylpentane	ND		ug/kg	2.52	0.682	1
Methyl tert butyl ether	ND		ug/kg	2.52	0.519	1
3-Methylpentane	ND		ug/kg	2.52	0.399	1
1-Hexene	ND		ug/kg	2.52	0.354	1
n-Hexane	ND		ug/kg	2.52	0.414	1
Isopropyl Ether	ND		ug/kg	2.52	0.305	1
trans-2-Hexene	ND		ug/kg	2.52	0.329	1
2-Methyl-2-pentene	ND		ug/kg	2.52	0.385	1
cis-2-Hexene	ND		ug/kg	2.52	0.341	1
Ethyl-Tert-Butyl-Ether	0.647	J	ug/kg	2.52	0.382	1
2,2-Dimethylpentane	ND		ug/kg	2.52	0.339	1
Methylcyclopentane	ND		ug/kg	2.52	0.337	1
2,4-Dimethylpentane	ND		ug/kg	2.52	0.311	1
2,2,3-Trimethylbutane	ND		ug/kg	2.52	0.340	1
1,2-Dichloroethane	ND		ug/kg	2.52	0.371	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
3,3-Dimethylpentane	ND		ug/kg	2.52	0.468	1
Cyclohexane	ND		ug/kg	2.52	0.311	1
2-Methylhexane	ND		ug/kg	2.52	0.397	1
Benzene	ND		ug/kg	2.52	0.384	1
2,3-Dimethylpentane	ND		ug/kg	2.52	0.334	1
Thiophene	ND		ug/kg	2.52	0.358	1
1,1-Dimethylcyclopentane	ND		ug/kg	2.52	0.302	1
3-Methylhexane	ND		ug/kg	2.52	0.403	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.52	0.310	1
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	2.52	0.379	1
3-Ethylpentane	ND		ug/kg	2.52	0.364	1
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	5.04	0.884	1
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	5.04	0.737	1
Isooctane	ND		ug/kg	2.52	0.274	1
trans-3-Heptene	ND		ug/kg	2.52	0.392	1
Heptane	ND		ug/kg	2.52	0.438	1
trans-2-Heptene	ND		ug/kg	2.52	0.322	1
cis-2-Heptene	ND		ug/kg	2.52	0.487	1
2,2-Dimethylhexane	ND		ug/kg	2.52	0.365	1
Methylcyclohexane	ND		ug/kg	2.52	0.340	1
2,5-Dimethylhexane	ND		ug/kg	2.52	0.438	1
Xylene (Total) <sup>1</sup>	ND		ug/kg	2.52	0.263	1
2,4-Dimethylhexane	ND		ug/kg	2.52	0.306	1
Ethylcyclopentane	ND		ug/kg	2.52	0.334	1
2,2,3-Trimethylpentane	ND		ug/kg	2.52	0.437	1
2,3,4-Trimethylpentane	ND		ug/kg	2.52	0.329	1
2,3,3-Trimethylpentane	ND		ug/kg	2.52	0.500	1
2,3-Dimethylhexane	ND		ug/kg	2.52	0.611	1
2-Methylheptane	ND		ug/kg	2.52	0.426	1
4-Methylheptane	ND		ug/kg	2.52	0.433	1
3-Methylheptane	ND		ug/kg	2.52	0.359	1
3-Ethylhexane	ND		ug/kg	2.52	0.451	1
Toluene	ND		ug/kg	2.52	0.341	1
2-Methylthiophene	ND		ug/kg	2.52	0.214	1
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	2.52	0.327	1
3-Methylthiophene	ND		ug/kg	2.52	0.295	1
1-Octene	ND		ug/kg	6.30	0.386	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab</b>						
Octane	ND		ug/kg	2.52	0.296	1
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	2.52	0.370	1
1,2-Dibromoethane	ND		ug/kg	2.52	0.403	1
cis-2-Octene	ND		ug/kg	2.52	0.288	1
Isopropylcyclopentane	ND		ug/kg	2.52	0.369	1
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	2.52	0.732	1
2,5-Dimethylheptane	ND		ug/kg	2.52	0.422	1
3,5-Dimethylheptane	ND		ug/kg	2.52	0.355	1
3,3-Dimethylheptane	ND		ug/kg	2.52	0.305	1
1,1,4-Trimethylcyclohexane	ND		ug/kg	2.52	0.250	1
2,3-Dimethylheptane	ND		ug/kg	2.52	0.287	1
3,4-Dimethylheptane	ND		ug/kg	2.52	0.428	1
4-Methyloctane	ND		ug/kg	2.52	0.420	1
2-Methyloctane	ND		ug/kg	2.52	0.645	1
Ethylbenzene	ND		ug/kg	2.52	0.272	1
2-Ethylthiophene	ND		ug/kg	2.52	0.222	1
3-Methyloctane	ND		ug/kg	2.52	0.282	1
3,3-Diethylpentane	ND		ug/kg	2.52	0.293	1
p/m-Xylene	ND		ug/kg	5.04	0.480	1
1-Nonene	ND		ug/kg	6.30	0.340	1
trans-3-Nonene	ND		ug/kg	2.52	0.298	1
cis-3-Nonene	ND		ug/kg	2.52	0.471	1
Nonane (C9)	ND		ug/kg	2.52	0.392	1
Styrene	ND		ug/kg	2.52	0.254	1
o-Xylene	ND		ug/kg	2.52	0.263	1
2-Nonene	ND		ug/kg	6.30	0.320	1
Isopropylcyclohexane	ND		ug/kg	2.52	0.267	1
Isopropylbenzene	ND		ug/kg	2.52	0.235	1
3,3-Dimethyloctane	ND		ug/kg	2.52	0.254	1
n-Propylbenzene	ND		ug/kg	2.52	0.223	1
2-Methylnonane	ND		ug/kg	2.52	0.356	1
3-Methylnonane	ND		ug/kg	2.52	0.351	1
1-Methyl-3-Ethylbenzene	ND		ug/kg	2.52	0.398	1
1-Methyl-4-Ethylbenzene	ND		ug/kg	2.52	0.355	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.52	0.290	1
1-Decene	ND		ug/kg	2.52	0.327	1
Isobutylcyclohexane	ND		ug/kg	2.52	0.205	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-01

Date Collected: 09/09/20 10:45

Client ID: REF1\_SE\_20200909

Date Received: 09/10/20

Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab</b>						
1-Methyl-2-Ethylbenzene	ND		ug/kg	2.52	0.214	1
Decane (C10)	ND		ug/kg	2.52	0.341	1
tert-Butylbenzene	ND		ug/kg	2.52	0.266	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.52	0.261	1
Isobutylbenzene	ND		ug/kg	2.52	0.340	1
sec-Butylbenzene	ND		ug/kg	2.52	0.326	1
1-Methyl-3-Isopropylbenzene	ND		ug/kg	2.52	0.325	1
1-Methyl-4-Isopropylbenzene	ND		ug/kg	2.52	0.267	1
1,2,3-Trimethylbenzene	ND		ug/kg	2.52	0.281	1
1-Methyl-2-Isopropylbenzene	ND		ug/kg	2.52	0.273	1
Indane	ND		ug/kg	2.52	0.155	1
1,3-Diethylbenzene	ND		ug/kg	2.52	0.314	1
1-Methyl-3-N-Propylbenzene	ND		ug/kg	2.52	0.254	1
Indene	ND		ug/kg	2.52	0.146	1
1-Methyl-4-N-Propylbenzene	ND		ug/kg	2.52	0.315	1
n-Butylbenzene	ND		ug/kg	2.52	0.248	1
1,2-Dimethyl-4-Ethylbenzene	ND		ug/kg	2.52	0.308	1
1,2-Diethylbenzene	ND		ug/kg	2.52	0.373	1
1-Methyl-2-N-Propylbenzene	ND		ug/kg	2.52	0.314	1
1,4-Dimethyl-2-Ethylbenzene	ND		ug/kg	2.52	0.235	1
Undecane	ND		ug/kg	2.52	0.280	1
1,3-Dimethyl-4-Ethylbenzene	ND		ug/kg	2.52	0.244	1
1,3-Dimethyl-5-Ethylbenzene	ND		ug/kg	2.52	0.297	1
1,3-Dimethyl-2-Ethylbenzene	ND		ug/kg	2.52	0.188	1
1,2-Dimethyl-3-Ethylbenzene	ND		ug/kg	2.52	0.160	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.52	0.195	1
1,2,3,5-Tetramethylbenzene	ND		ug/kg	2.52	0.191	1
N-Pentylbenzene	ND		ug/kg	2.52	0.314	1
1,2,3,4-Tetramethylbenzene	ND		ug/kg	2.52	0.269	1
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	2.52	0.359	1
Dodecane (C12)	ND		ug/kg	6.30	0.827	1
1,3,5-Triethylbenzene	ND		ug/kg	2.52	0.478	1
Naphthalene	ND		ug/kg	2.52	1.05	1
Benzothiophene	ND		ug/kg	2.52	1.33	1
1,2,4-Triethylbenzene	ND		ug/kg	2.52	0.428	1
Hexylbenzene	ND		ug/kg	2.52	0.485	1
MMT	ND		ug/kg	6.30	1.62	1



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
Tridecane	ND		ug/kg	6.30	1.75	1
2-Methylnaphthalene	ND		ug/kg	6.30	1.66	1
1-Methylnaphthalene	ND		ug/kg	6.30	1.85	1
Tetradecane (C14)	ND		ug/kg	6.30	0.771	1
Pentadecane	ND		ug/kg	6.30	1.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	116		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	88		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 09/15/20 10:39  
 Analyst: MKS  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.65	0.25	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Benzene	ND		ug/kg	0.65	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
1,4-Dichlorobutane	ND		ug/kg	13	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	50		ug/kg	32	13.	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
Ethyl methacrylate	ND		ug/kg	13	2.0	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
Tetrahydrofuran	12		ug/kg	5.2	2.0	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	2.2	J	ug/kg	5.2	0.84	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1
Ethyl ether	ND		ug/kg	2.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260B  
 Analytical Date: 09/16/20 18:30  
 Analyst: RY  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
3-Methyl-1-butene	ND		ug/kg	1.82	0.270	1
Isopentane	ND		ug/kg	1.82	0.333	1
1-Pentene	ND		ug/kg	1.82	0.332	1
2-Methyl-1-Butene	ND		ug/kg	1.82	0.283	1
Pentane	ND		ug/kg	1.82	0.568	1
trans-2-Pentene	ND		ug/kg	1.82	0.246	1
Isoprene	ND		ug/kg	1.82	0.325	1
cis-2-Pentene	ND		ug/kg	1.82	0.293	1
Tertiary Butanol	ND		ug/kg	22.8	2.95	1
2,2-Dimethylbutane	ND		ug/kg	1.82	0.562	1
4-Methyl-1-pentene	ND		ug/kg	1.82	0.283	1
Cyclopentane	ND		ug/kg	1.82	0.472	1
2,3-Dimethylbutane	ND		ug/kg	1.82	0.752	1
2-Methylpentane	ND		ug/kg	1.82	0.493	1
Methyl tert butyl ether	ND		ug/kg	1.82	0.375	1
3-Methylpentane	ND		ug/kg	1.82	0.289	1
1-Hexene	ND		ug/kg	1.82	0.256	1
n-Hexane	ND		ug/kg	1.82	0.300	1
Isopropyl Ether	ND		ug/kg	1.82	0.220	1
trans-2-Hexene	ND		ug/kg	1.82	0.238	1
2-Methyl-2-pentene	ND		ug/kg	1.82	0.279	1
cis-2-Hexene	ND		ug/kg	1.82	0.247	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	1.82	0.276	1
2,2-Dimethylpentane	ND		ug/kg	1.82	0.245	1
Methylcyclopentane	ND		ug/kg	1.82	0.244	1
2,4-Dimethylpentane	ND		ug/kg	1.82	0.225	1
2,2,3-Trimethylbutane	ND		ug/kg	1.82	0.246	1
1,2-Dichloroethane	ND		ug/kg	1.82	0.268	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
3,3-Dimethylpentane	ND		ug/kg	1.82	0.339	1
Cyclohexane	ND		ug/kg	1.82	0.225	1
2-Methylhexane	ND		ug/kg	1.82	0.287	1
Benzene	ND		ug/kg	1.82	0.278	1
2,3-Dimethylpentane	ND		ug/kg	1.82	0.241	1
Thiophene	ND		ug/kg	1.82	0.258	1
1,1-Dimethylcyclopentane	ND		ug/kg	1.82	0.218	1
3-Methylhexane	ND		ug/kg	1.82	0.291	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	1.82	0.224	1
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	1.82	0.274	1
3-Ethylpentane	ND		ug/kg	1.82	0.263	1
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	3.64	0.639	1
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	3.64	0.533	1
Isooctane	ND		ug/kg	1.82	0.198	1
trans-3-Heptene	ND		ug/kg	1.82	0.283	1
Heptane	ND		ug/kg	1.82	0.317	1
trans-2-Heptene	ND		ug/kg	1.82	0.233	1
cis-2-Heptene	ND		ug/kg	1.82	0.352	1
2,2-Dimethylhexane	ND		ug/kg	1.82	0.264	1
Methylcyclohexane	ND		ug/kg	1.82	0.246	1
2,5-Dimethylhexane	ND		ug/kg	1.82	0.317	1
Xylene (Total) <sup>1</sup>	ND		ug/kg	1.82	0.190	1
2,4-Dimethylhexane	ND		ug/kg	1.82	0.221	1
Ethylcyclopentane	ND		ug/kg	1.82	0.241	1
2,2,3-Trimethylpentane	ND		ug/kg	1.82	0.316	1
2,3,4-Trimethylpentane	ND		ug/kg	1.82	0.238	1
2,3,3-Trimethylpentane	ND		ug/kg	1.82	0.361	1
2,3-Dimethylhexane	ND		ug/kg	1.82	0.442	1
2-Methylheptane	ND		ug/kg	1.82	0.308	1
4-Methylheptane	ND		ug/kg	1.82	0.313	1
3-Methylheptane	ND		ug/kg	1.82	0.259	1
3-Ethylhexane	ND		ug/kg	1.82	0.326	1
Toluene	0.551	J	ug/kg	1.82	0.247	1
2-Methylthiophene	ND		ug/kg	1.82	0.155	1
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	1.82	0.237	1
3-Methylthiophene	ND		ug/kg	1.82	0.213	1
1-Octene	ND		ug/kg	4.55	0.280	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab</b>						
Octane	ND		ug/kg	1.82	0.214	1
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	1.82	0.268	1
1,2-Dibromoethane	ND		ug/kg	1.82	0.291	1
cis-2-Octene	ND		ug/kg	1.82	0.208	1
Isopropylcyclopentane	ND		ug/kg	1.82	0.267	1
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	1.82	0.529	1
2,5-Dimethylheptane	ND		ug/kg	1.82	0.305	1
3,5-Dimethylheptane	ND		ug/kg	1.82	0.257	1
3,3-Dimethylheptane	ND		ug/kg	1.82	0.220	1
1,1,4-Trimethylcyclohexane	ND		ug/kg	1.82	0.181	1
2,3-Dimethylheptane	ND		ug/kg	1.82	0.208	1
3,4-Dimethylheptane	ND		ug/kg	1.82	0.310	1
4-Methyloctane	ND		ug/kg	1.82	0.304	1
2-Methyloctane	ND		ug/kg	1.82	0.466	1
Ethylbenzene	ND		ug/kg	1.82	0.197	1
2-Ethylthiophene	ND		ug/kg	1.82	0.160	1
3-Methyloctane	ND		ug/kg	1.82	0.204	1
3,3-Diethylpentane	ND		ug/kg	1.82	0.212	1
p/m-Xylene	ND		ug/kg	3.64	0.347	1
1-Nonene	ND		ug/kg	4.55	0.246	1
trans-3-Nonene	ND		ug/kg	1.82	0.216	1
cis-3-Nonene	ND		ug/kg	1.82	0.340	1
Nonane (C9)	ND		ug/kg	1.82	0.283	1
Styrene	ND		ug/kg	1.82	0.184	1
o-Xylene	ND		ug/kg	1.82	0.190	1
2-Nonene	ND		ug/kg	4.55	0.231	1
Isopropylcyclohexane	ND		ug/kg	1.82	0.193	1
Isopropylbenzene	ND		ug/kg	1.82	0.170	1
3,3-Dimethyloctane	ND		ug/kg	1.82	0.184	1
n-Propylbenzene	ND		ug/kg	1.82	0.161	1
2-Methylnonane	ND		ug/kg	1.82	0.258	1
3-Methylnonane	ND		ug/kg	1.82	0.254	1
1-Methyl-3-Ethylbenzene	ND		ug/kg	1.82	0.288	1
1-Methyl-4-Ethylbenzene	ND		ug/kg	1.82	0.257	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.82	0.209	1
1-Decene	ND		ug/kg	1.82	0.237	1
Isobutylcyclohexane	ND		ug/kg	1.82	0.148	1



**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab</b>						
1-Methyl-2-Ethylbenzene	ND		ug/kg	1.82	0.155	1
Decane (C10)	ND		ug/kg	1.82	0.247	1
tert-Butylbenzene	ND		ug/kg	1.82	0.192	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.82	0.188	1
Isobutylbenzene	ND		ug/kg	1.82	0.246	1
sec-Butylbenzene	ND		ug/kg	1.82	0.236	1
1-Methyl-3-Isopropylbenzene	ND		ug/kg	1.82	0.235	1
1-Methyl-4-Isopropylbenzene	ND		ug/kg	1.82	0.193	1
1,2,3-Trimethylbenzene	ND		ug/kg	1.82	0.203	1
1-Methyl-2-Isopropylbenzene	ND		ug/kg	1.82	0.198	1
Indane	ND		ug/kg	1.82	0.112	1
1,3-Diethylbenzene	ND		ug/kg	1.82	0.227	1
1-Methyl-3-N-Propylbenzene	ND		ug/kg	1.82	0.184	1
Indene	ND		ug/kg	1.82	0.106	1
1-Methyl-4-N-Propylbenzene	ND		ug/kg	1.82	0.228	1
n-Butylbenzene	ND		ug/kg	1.82	0.179	1
1,2-Dimethyl-4-Ethylbenzene	ND		ug/kg	1.82	0.223	1
1,2-Diethylbenzene	ND		ug/kg	1.82	0.269	1
1-Methyl-2-N-Propylbenzene	ND		ug/kg	1.82	0.227	1
1,4-Dimethyl-2-Ethylbenzene	ND		ug/kg	1.82	0.170	1
Undecane	0.358	J	ug/kg	1.82	0.202	1
1,3-Dimethyl-4-Ethylbenzene	ND		ug/kg	1.82	0.177	1
1,3-Dimethyl-5-Ethylbenzene	0.234	J	ug/kg	1.82	0.215	1
1,3-Dimethyl-2-Ethylbenzene	ND		ug/kg	1.82	0.136	1
1,2-Dimethyl-3-Ethylbenzene	ND		ug/kg	1.82	0.116	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.82	0.141	1
1,2,3,5-Tetramethylbenzene	0.281	J	ug/kg	1.82	0.138	1
N-Pentylbenzene	ND		ug/kg	1.82	0.227	1
1,2,3,4-Tetramethylbenzene	0.256	J	ug/kg	1.82	0.195	1
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	1.82	0.259	1
Dodecane (C12)	ND		ug/kg	4.55	0.598	1
1,3,5-Triethylbenzene	ND		ug/kg	1.82	0.346	1
Naphthalene	1.94		ug/kg	1.82	0.760	1
Benzothiophene	ND		ug/kg	1.82	0.962	1
1,2,4-Triethylbenzene	ND		ug/kg	1.82	0.310	1
Hexylbenzene	ND		ug/kg	1.82	0.350	1
MMT	ND		ug/kg	4.55	1.17	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab						
Tridecane	ND		ug/kg	4.55	1.27	1
2-Methylnaphthalene	ND		ug/kg	4.55	1.20	1
1-Methylnaphthalene	2.78	J	ug/kg	4.55	1.34	1
Tetradecane (C14)	0.691	J	ug/kg	4.55	0.557	1
Pentadecane	1.38	J	ug/kg	4.55	1.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	94		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 09/16/20 04:31  
 Analyst: MV  
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
Xylenes, Total	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.1	0.26	1
1,4-Dichlorobutane	ND		ug/kg	11	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.14	1
Styrene	0.59	J	ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	26	J	ug/kg	27	11.	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	4.1	J	ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Ethyl methacrylate	ND		ug/kg	11	1.7	1
Acrylonitrile	ND		ug/kg	4.3	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
Tetrahydrofuran	4.5		ug/kg	4.3	1.7	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.18	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

**Lab ID:** L2037437-02  
**Client ID:** SW\_SE\_20200909  
**Sample Location:** 400 E. BRAMLETTE RD., GREENVILLE, SC

**Date Collected:** 09/09/20 11:40  
**Date Received:** 09/10/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.26	J	ug/kg	1.1	0.12	1
Naphthalene	9.5		ug/kg	4.3	0.70	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1
Ethyl ether	ND		ug/kg	2.1	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	104		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 08:55  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1410219-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 08:55  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1410219-5					
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,4-Dichlorobutane	ND		ug/kg	10	0.23
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	25	10.
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Ethyl methacrylate	ND		ug/kg	10	1.6
Acrolein	ND		ug/kg	25	5.6
Acrylonitrile	ND		ug/kg	4.0	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 08:55  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1410219-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Ethyl ether	ND		ug/kg	2.0	0.34
Methyl Acetate	ND		ug/kg	4.0	0.95
Ethyl Acetate	ND		ug/kg	10	1.2
Isopropyl Ether	ND		ug/kg	2.0	0.21
Cyclohexane	ND		ug/kg	10	0.54
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	80	35.
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 08:55  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1410219-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	90		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 21:17  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1410381-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
2-Chloroethylvinyl ether	ND		ug/kg	20	1.6
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 21:17  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1410381-5					
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
1,4-Dichlorobutane	ND		ug/kg	10	0.23
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Styrene	0.53	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	25	10.
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Ethyl methacrylate	ND		ug/kg	10	1.6
Acrolein	ND		ug/kg	25	5.6
Acrylonitrile	ND		ug/kg	4.0	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
Tetrahydrofuran	ND		ug/kg	4.0	1.6
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 21:17  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1410381-5					
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
1,3,5-Trichlorobenzene	ND		ug/kg	2.0	0.17
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Ethyl ether	ND		ug/kg	2.0	0.34
Methyl Acetate	ND		ug/kg	4.0	0.95
Ethyl Acetate	ND		ug/kg	10	1.2
Isopropyl Ether	ND		ug/kg	2.0	0.21
Cyclohexane	ND		ug/kg	10	0.54
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.0	0.13
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.0	0.18
1,4-Dioxane	ND		ug/kg	80	35.
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/15/20 21:17  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1410381-5					
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					
3-Methyl-1-butene	ND		ug/kg	2.00	0.297
Isopentane	ND		ug/kg	2.00	0.366
1-Pentene	ND		ug/kg	2.00	0.365
2-Methyl-1-Butene	ND		ug/kg	2.00	0.311
Pentane	ND		ug/kg	2.00	0.624
trans-2-Pentene	ND		ug/kg	2.00	0.270
Isoprene	ND		ug/kg	2.00	0.357
cis-2-Pentene	ND		ug/kg	2.00	0.322
Tertiary Butanol	ND		ug/kg	25.0	3.24
2,2-Dimethylbutane	ND		ug/kg	2.00	0.617
4-Methyl-1-pentene	ND		ug/kg	2.00	0.311
Cyclopentane	ND		ug/kg	2.00	0.519
2,3-Dimethylbutane	ND		ug/kg	2.00	0.826
2-Methylpentane	ND		ug/kg	2.00	0.542
Methyl tert butyl ether	ND		ug/kg	2.00	0.412
3-Methylpentane	ND		ug/kg	2.00	0.317
1-Hexene	ND		ug/kg	2.00	0.281
n-Hexane	ND		ug/kg	2.00	0.329
Isopropyl Ether	ND		ug/kg	2.00	0.242
trans-2-Hexene	ND		ug/kg	2.00	0.261
2-Methyl-2-pentene	ND		ug/kg	2.00	0.306
cis-2-Hexene	ND		ug/kg	2.00	0.271
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.00	0.303
2,2-Dimethylpentane	ND		ug/kg	2.00	0.269
Methylcyclopentane	ND		ug/kg	2.00	0.268
2,4-Dimethylpentane	ND		ug/kg	2.00	0.247
2,2,3-Trimethylbutane	ND		ug/kg	2.00	0.270
1,2-Dichloroethane	ND		ug/kg	2.00	0.295
3,3-Dimethylpentane	ND		ug/kg	2.00	0.372



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					
Cyclohexane	ND		ug/kg	2.00	0.247
2-Methylhexane	ND		ug/kg	2.00	0.315
Benzene	ND		ug/kg	2.00	0.305
2,3-Dimethylpentane	ND		ug/kg	2.00	0.265
Thiophene	ND		ug/kg	2.00	0.284
1,1-Dimethylcyclopentane	ND		ug/kg	2.00	0.240
3-Methylhexane	ND		ug/kg	2.00	0.320
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.00	0.246
1,3-Dimethylcyclopentane (cis)	ND		ug/kg	2.00	0.301
3-Ethylpentane	ND		ug/kg	2.00	0.289
1,3-DMCP (trans)/2-Methyl-1-hexene	ND		ug/kg	4.00	0.702
1-Heptene/1,2-DMCP (trans)	ND		ug/kg	4.00	0.585
Isooctane	ND		ug/kg	2.00	0.218
trans-3-Heptene	ND		ug/kg	2.00	0.311
Heptane	ND		ug/kg	2.00	0.348
trans-2-Heptene	ND		ug/kg	2.00	0.256
cis-2-Heptene	ND		ug/kg	2.00	0.387
2,2-Dimethylhexane	ND		ug/kg	2.00	0.290
Methylcyclohexane	ND		ug/kg	2.00	0.270
2,5-Dimethylhexane	ND		ug/kg	2.00	0.348
Xylene (Total) <sup>1</sup>	ND		ug/kg	2.00	0.209
2,4-Dimethylhexane	ND		ug/kg	2.00	0.243
Ethylcyclopentane	ND		ug/kg	2.00	0.265
2,2,3-Trimethylpentane	ND		ug/kg	2.00	0.347
2,3,4-Trimethylpentane	ND		ug/kg	2.00	0.261
2,3,3-Trimethylpentane	ND		ug/kg	2.00	0.397
2,3-Dimethylhexane	ND		ug/kg	2.00	0.485
2-Methylheptane	ND		ug/kg	2.00	0.338
4-Methylheptane	ND		ug/kg	2.00	0.344

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					
3-Methylheptane	ND		ug/kg	2.00	0.285
3-Ethylhexane	ND		ug/kg	2.00	0.358
Toluene	ND		ug/kg	2.00	0.271
2-Methylthiophene	ND		ug/kg	2.00	0.170
1,4-Dimethylcyclohexane (trans)	ND		ug/kg	2.00	0.260
3-Methylthiophene	ND		ug/kg	2.00	0.234
1-Octene	ND		ug/kg	5.00	0.307
Octane	ND		ug/kg	2.00	0.235
1,2-Dimethylcyclohexane (trans)	ND		ug/kg	2.00	0.294
1,2-Dibromoethane	ND		ug/kg	2.00	0.320
cis-2-Octene	ND		ug/kg	2.00	0.229
Isopropylcyclopentane	ND		ug/kg	2.00	0.293
1,2-Dimethylcyclohexane (cis)	ND		ug/kg	2.00	0.581
2,5-Dimethylheptane	ND		ug/kg	2.00	0.335
3,5-Dimethylheptane	ND		ug/kg	2.00	0.282
3,3-Dimethylheptane	ND		ug/kg	2.00	0.242
1,1,4-Trimethylcyclohexane	ND		ug/kg	2.00	0.199
2,3-Dimethylheptane	ND		ug/kg	2.00	0.228
3,4-Dimethylheptane	ND		ug/kg	2.00	0.340
4-Methyloctane	ND		ug/kg	2.00	0.334
2-Methyloctane	ND		ug/kg	2.00	0.512
Ethylbenzene	ND		ug/kg	2.00	0.216
2-Ethylthiophene	ND		ug/kg	2.00	0.176
3-Methyloctane	ND		ug/kg	2.00	0.224
3,3-Diethylpentane	ND		ug/kg	2.00	0.233
p/m-Xylene	ND		ug/kg	4.00	0.381
1-Nonene	ND		ug/kg	5.00	0.270
trans-3-Nonene	ND		ug/kg	2.00	0.237
cis-3-Nonene	ND		ug/kg	2.00	0.374

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					
Nonane (C9)	ND		ug/kg	2.00	0.311
Styrene	ND		ug/kg	2.00	0.202
o-Xylene	ND		ug/kg	2.00	0.209
2-Nonene	ND		ug/kg	5.00	0.254
Isopropylcyclohexane	ND		ug/kg	2.00	0.212
Isopropylbenzene	ND		ug/kg	2.00	0.187
3,3-Dimethyloctane	ND		ug/kg	2.00	0.202
n-Propylbenzene	ND		ug/kg	2.00	0.177
2-Methylnonane	ND		ug/kg	2.00	0.283
3-Methylnonane	ND		ug/kg	2.00	0.279
1-Methyl-3-Ethylbenzene	ND		ug/kg	2.00	0.316
1-Methyl-4-Ethylbenzene	ND		ug/kg	2.00	0.282
1,3,5-Trimethylbenzene	ND		ug/kg	2.00	0.230
1-Decene	ND		ug/kg	2.00	0.260
Isobutylcyclohexane	ND		ug/kg	2.00	0.163
1-Methyl-2-Ethylbenzene	ND		ug/kg	2.00	0.170
Decane (C10)	ND		ug/kg	2.00	0.271
tert-Butylbenzene	ND		ug/kg	2.00	0.211
1,2,4-Trimethylbenzene	ND		ug/kg	2.00	0.207
Isobutylbenzene	ND		ug/kg	2.00	0.270
sec-Butylbenzene	ND		ug/kg	2.00	0.259
1-Methyl-3-Isopropylbenzene	ND		ug/kg	2.00	0.258
1-Methyl-4-Isopropylbenzene	ND		ug/kg	2.00	0.212
1,2,3-Trimethylbenzene	ND		ug/kg	2.00	0.223
1-Methyl-2-Isopropylbenzene	ND		ug/kg	2.00	0.217
Indane	ND		ug/kg	2.00	0.123
1,3-Diethylbenzene	ND		ug/kg	2.00	0.249
1-Methyl-3-N-Propylbenzene	ND		ug/kg	2.00	0.202
Indene	ND		ug/kg	2.00	0.116

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					
1-Methyl-4-N-Propylbenzene	ND		ug/kg	2.00	0.250
n-Butylbenzene	ND		ug/kg	2.00	0.197
1,2-Dimethyl-4-Ethylbenzene	ND		ug/kg	2.00	0.245
1,2-Diethylbenzene	ND		ug/kg	2.00	0.296
1-Methyl-2-N-Propylbenzene	ND		ug/kg	2.00	0.249
1,4-Dimethyl-2-Ethylbenzene	ND		ug/kg	2.00	0.187
Undecane	ND		ug/kg	2.00	0.222
1,3-Dimethyl-4-Ethylbenzene	ND		ug/kg	2.00	0.194
1,3-Dimethyl-5-Ethylbenzene	ND		ug/kg	2.00	0.236
1,3-Dimethyl-2-Ethylbenzene	ND		ug/kg	2.00	0.149
1,2-Dimethyl-3-Ethylbenzene	ND		ug/kg	2.00	0.127
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.00	0.155
1,2,3,5-Tetramethylbenzene	ND		ug/kg	2.00	0.152
N-Pentylbenzene	ND		ug/kg	2.00	0.249
1,2,3,4-Tetramethylbenzene	ND		ug/kg	2.00	0.214
1,3-Dimethyl-5-tert-Butylbenzene	ND		ug/kg	2.00	0.285
Dodecane (C12)	ND		ug/kg	5.00	0.657
1,3,5-Triethylbenzene	ND		ug/kg	2.00	0.380
Naphthalene	ND		ug/kg	2.00	0.835
Benzothiophene	ND		ug/kg	2.00	1.06
1,2,4-Triethylbenzene	ND		ug/kg	2.00	0.340
Hexylbenzene	ND		ug/kg	2.00	0.385
MMT	ND		ug/kg	5.00	1.29
Tridecane	ND		ug/kg	5.00	1.39
2-Methylnaphthalene	ND		ug/kg	5.00	1.32
1-Methylnaphthalene	ND		ug/kg	5.00	1.47
Tetradecane (C14)	ND		ug/kg	5.00	0.612
Pentadecane	ND		ug/kg	5.00	1.12

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260B  
Analytical Date: 09/16/20 16:01  
Analyst: RY

Parameter	Result	Qualifier	Units	RL	MDL
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab for sample(s): 01-02 Batch: WG1410785-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Dibromofluoromethane	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1410219-3 WG1410219-4								
Methylene chloride	104		104		70-130	0		30
1,1-Dichloroethane	108		106		70-130	2		30
Chloroform	95		94		70-130	1		30
Carbon tetrachloride	90		88		70-130	2		30
1,2-Dichloropropane	109		111		70-130	2		30
Dibromochloromethane	80		84		70-130	5		30
1,1,2-Trichloroethane	90		93		70-130	3		30
2-Chloroethylvinyl ether	111		118		70-130	6		30
Tetrachloroethene	97		95		70-130	2		30
Chlorobenzene	84		86		70-130	2		30
Trichlorofluoromethane	89		86		70-139	3		30
1,2-Dichloroethane	101		106		70-130	5		30
1,1,1-Trichloroethane	100		98		70-130	2		30
Bromodichloromethane	95		96		70-130	1		30
trans-1,3-Dichloropropene	89		91		70-130	2		30
cis-1,3-Dichloropropene	102		104		70-130	2		30
1,1-Dichloropropene	109		108		70-130	1		30
Bromoform	78		81		70-130	4		30
1,1,1,2-Tetrachloroethane	82		88		70-130	7		30
Benzene	102		102		70-130	0		30
Toluene	93		91		70-130	2		30
Ethylbenzene	92		92		70-130	0		30
Chloromethane	135	Q	129		52-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: FORMER BRAMLETTE MGP SITE

Lab Number: L2037437

Project Number: MGPBRAM

Report Date: 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1410219-3 WG1410219-4								
Bromomethane	99		95		57-147	4		30
Vinyl chloride	113		106		67-130	6		30
Chloroethane	103		98		50-151	5		30
1,1-Dichloroethene	114		108		65-135	5		30
trans-1,2-Dichloroethene	109		106		70-130	3		30
Trichloroethene	101		101		70-130	0		30
1,2-Dichlorobenzene	84		86		70-130	2		30
1,3-Dichlorobenzene	84		86		70-130	2		30
1,4-Dichlorobenzene	83		85		70-130	2		30
Methyl tert butyl ether	110		114		66-130	4		30
p/m-Xylene	92		92		70-130	0		30
o-Xylene	85		86		70-130	1		30
cis-1,2-Dichloroethene	104		103		70-130	1		30
Dibromomethane	96		100		70-130	4		30
1,4-Dichlorobutane	96		100		70-130	4		30
1,2,3-Trichloropropane	84		89		68-130	6		30
Styrene	87		88		70-130	1		30
Dichlorodifluoromethane	108		103		30-146	5		30
Acetone	132		137		54-140	4		30
Carbon disulfide	89		85		59-130	5		30
2-Butanone	124		134	Q	70-130	8		30
Vinyl acetate	130		134	Q	70-130	3		30
4-Methyl-2-pentanone	106		113		70-130	6		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1410219-3 WG1410219-4								
2-Hexanone	99		106		70-130	7		30
Ethyl methacrylate	98		103		70-130	5		30
Acrolein	71		75		70-130	5		30
Acrylonitrile	136	Q	149	Q	70-130	9		30
Bromochloromethane	98		100		70-130	2		30
Tetrahydrofuran	116		124		66-130	7		30
2,2-Dichloropropane	104		100		70-130	4		30
1,2-Dibromoethane	91		96		70-130	5		30
1,3-Dichloropropane	91		94		69-130	3		30
1,1,1,2-Tetrachloroethane	83		84		70-130	1		30
Bromobenzene	80		81		70-130	1		30
n-Butylbenzene	86		86		70-130	0		30
sec-Butylbenzene	88		87		70-130	1		30
tert-Butylbenzene	86		86		70-130	0		30
1,3,5-Trichlorobenzene	88		90		70-139	2		30
o-Chlorotoluene	85		85		70-130	0		30
p-Chlorotoluene	84		84		70-130	0		30
1,2-Dibromo-3-chloropropane	91		98		68-130	7		30
Hexachlorobutadiene	86		86		67-130	0		30
Isopropylbenzene	88		87		70-130	1		30
p-Isopropyltoluene	88		88		70-130	0		30
Naphthalene	110		117		70-130	6		30
n-Propylbenzene	87		86		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1410219-3 WG1410219-4									
1,2,3-Trichlorobenzene	92		97		70-130		5		30
1,2,4-Trichlorobenzene	93		97		70-130		4		30
1,3,5-Trimethylbenzene	87		87		70-130		0		30
1,2,4-Trimethylbenzene	86		86		70-130		0		30
trans-1,4-Dichloro-2-butene	93		105		70-130		12		30
Ethyl ether	114		117		67-130		3		30
Methyl Acetate	106		116		65-130		9		30
Ethyl Acetate	113		123		70-130		8		30
Isopropyl Ether	111		112		66-130		1		30
Cyclohexane	113		110		70-130		3		30
Tert-Butyl Alcohol	121		132	Q	70-130		9		30
Ethyl-Tert-Butyl-Ether	112		113		70-130		1		30
Tertiary-Amyl Methyl Ether	101		104		70-130		3		30
1,4-Dioxane	153	Q	166	Q	65-136		8		30
Methyl cyclohexane	97		95		70-130		2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		91		70-130		4		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	91		90		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	93		92		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1410381-3 WG1410381-4								
Methylene chloride	89		82		70-130	8		30
1,1-Dichloroethane	84		82		70-130	2		30
Chloroform	91		89		70-130	2		30
Carbon tetrachloride	118		114		70-130	3		30
1,2-Dichloropropane	82		78		70-130	5		30
Dibromochloromethane	106		106		70-130	0		30
1,1,2-Trichloroethane	85		83		70-130	2		30
2-Chloroethylvinyl ether	96		92		70-130	4		30
Tetrachloroethene	105		103		70-130	2		30
Chlorobenzene	93		93		70-130	0		30
Trichlorofluoromethane	76		74		70-139	3		30
1,2-Dichloroethane	98		96		70-130	2		30
1,1,1-Trichloroethane	103		99		70-130	4		30
Bromodichloromethane	96		92		70-130	4		30
trans-1,3-Dichloropropene	95		92		70-130	3		30
cis-1,3-Dichloropropene	95		91		70-130	4		30
1,1-Dichloropropene	89		87		70-130	2		30
Bromoform	106		104		70-130	2		30
1,1,1,2-Tetrachloroethane	89		84		70-130	6		30
Benzene	86		83		70-130	4		30
Toluene	89		87		70-130	2		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	80		79		52-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: FORMER BRAMLETTE MGP SITE

Lab Number: L2037437

Project Number: MGPBRAM

Report Date: 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1410381-3 WG1410381-4								
Bromomethane	80		78		57-147	3		30
Vinyl chloride	83		82		67-130	1		30
Chloroethane	68		66		50-151	3		30
1,1-Dichloroethene	67		64	Q	65-135	5		30
trans-1,2-Dichloroethene	95		92		70-130	3		30
Trichloroethene	94		92		70-130	2		30
1,2-Dichlorobenzene	103		100		70-130	3		30
1,3-Dichlorobenzene	104		101		70-130	3		30
1,4-Dichlorobenzene	103		100		70-130	3		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	99		98		70-130	1		30
o-Xylene	99		99		70-130	0		30
cis-1,2-Dichloroethene	91		90		70-130	1		30
Dibromomethane	96		94		70-130	2		30
1,4-Dichlorobutane	91		88		70-130	3		30
1,2,3-Trichloropropane	91		89		68-130	2		30
Styrene	93		90		70-130	3		30
Dichlorodifluoromethane	94		91		30-146	3		30
Acetone	112		90		54-140	22		30
Carbon disulfide	61		59		59-130	3		30
2-Butanone	90		88		70-130	2		30
Vinyl acetate	106		95		70-130	11		30
4-Methyl-2-pentanone	89		88		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1410381-3 WG1410381-4								
2-Hexanone	95		95		70-130	0		30
Ethyl methacrylate	90		87		70-130	3		30
Acrolein	111		107		70-130	4		30
Acrylonitrile	84		80		70-130	5		30
Bromochloromethane	110		106		70-130	4		30
Tetrahydrofuran	89		87		66-130	2		30
2,2-Dichloropropane	99		95		70-130	4		30
1,2-Dibromoethane	96		94		70-130	2		30
1,3-Dichloropropane	84		84		69-130	0		30
1,1,1,2-Tetrachloroethane	107		105		70-130	2		30
Bromobenzene	100		98		70-130	2		30
n-Butylbenzene	99		96		70-130	3		30
sec-Butylbenzene	102		98		70-130	4		30
tert-Butylbenzene	105		103		70-130	2		30
1,3,5-Trichlorobenzene	105		100		70-139	5		30
o-Chlorotoluene	93		92		70-130	1		30
p-Chlorotoluene	96		93		70-130	3		30
1,2-Dibromo-3-chloropropane	105		100		68-130	5		30
Hexachlorobutadiene	107		104		67-130	3		30
Isopropylbenzene	99		96		70-130	3		30
p-Isopropyltoluene	108		104		70-130	4		30
Naphthalene	110		108		70-130	2		30
n-Propylbenzene	94		91		70-130	3		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1410381-3 WG1410381-4								
1,2,3-Trichlorobenzene	103		99		70-130	4		30
1,2,4-Trichlorobenzene	104		100		70-130	4		30
1,3,5-Trimethylbenzene	100		98		70-130	2		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
trans-1,4-Dichloro-2-butene	103		99		70-130	4		30
Ethyl ether	66	Q	62	Q	67-130	6		30
Methyl Acetate	88		84		65-130	5		30
Ethyl Acetate	93		90		70-130	3		30
Isopropyl Ether	88		84		66-130	5		30
Cyclohexane	87		84		70-130	4		30
Tert-Butyl Alcohol	102		98		70-130	4		30
Ethyl-Tert-Butyl-Ether	94		89		70-130	5		30
Tertiary-Amyl Methyl Ether	94		92		70-130	2		30
1,4-Dioxane	94		92		65-136	2		30
Methyl cyclohexane	92		90		70-130	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	71		69	Q	70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		101		70-130
Toluene-d8	90		89		70-130
4-Bromofluorobenzene	91		89		70-130
Dibromofluoromethane	102		98		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab Associated sample(s): 01-02 Batch: WG1410785-3 WG1410785-4								
1-Pentene	88		86		50-130	2		30
Pentane	72		66		50-130	9		30
Tertiary Butanol	81		86		50-130	6		30
Cyclopentane	93		91		50-130	2		30
2-Methylpentane	90		88		50-130	2		30
Methyl tert butyl ether	104		103		50-130	1		30
3-Methylpentane	93		92		50-130	1		30
1-Hexene	100		97		50-130	3		30
n-Hexane	96		95		50-130	1		30
Isopropyl Ether	103		101		50-130	2		30
Ethyl-Tert-Butyl-Ether	105		104		50-130	1		30
Methylcyclopentane	102		100		50-130	2		30
2,4-Dimethylpentane	97		94		50-130	3		30
Cyclohexane	104		103		50-130	1		30
2-Methylhexane	99		97		50-130	2		30
Benzene	102		100		50-130	2		30
2,3-Dimethylpentane	99		98		50-130	1		30
3-Methylhexane	88		87		50-130	1		30
Tertiary-Amyl Methyl Ether	98		97		50-130	1		30
Isooctane	101		99		50-130	2		30
Heptane	97		95		50-130	2		30
Methylcyclohexane	107		105		50-130	2		30
2-Methylheptane	99		97		50-130	2		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab Associated sample(s): 01-02 Batch: WG1410785-3 WG1410785-4								
3-Methylheptane	95		94		50-130	1		30
Toluene	99		97		50-130	2		30
Octane	106		104		50-130	2		30
Ethylbenzene	101		99		50-130	2		30
p/m-Xylene	104		103		50-130	1		30
Nonane (C9)	98		97		50-130	1		30
o-Xylene	103		102		50-130	1		30
Isopropylbenzene	102		100		50-130	2		30
n-Propylbenzene	101		101		50-130	0		30
1-Methyl-3-Ethylbenzene	102		102		50-130	0		30
1-Methyl-4-Ethylbenzene	103		101		50-130	2		30
1,3,5-Trimethylbenzene	103		102		50-130	1		30
1-Decene	90		90		50-130	0		30
1-Methyl-2-Ethylbenzene	100		99		50-130	1		30
Decane (C10)	106		107		50-130	1		30
1,2,4-Trimethylbenzene	101		100		50-130	1		30
sec-Butylbenzene	104		104		50-130	0		30
1-Methyl-4-N-Propylbenzene	95		96		50-130	1		30
n-Butylbenzene	99		101		50-130	2		30
1,2-Diethylbenzene	97		98		50-130	1		30
Undecane	105		105		50-130	0		30
N-Pentylbenzene	100		101		50-130	1		30
Dodecane (C12)	118		120		50-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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PIANO Volatile Organics by EPA 5035 Low - Mansfield Lab Associated sample(s): 01-02 Batch: WG1410785-3 WG1410785-4

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Dibromofluoromethane	102		101		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	100		99		70-130

# SEMIVOLATILES

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D  
 Analytical Date: 09/30/20 12:17  
 Analyst: PS  
 Percent Solids: 82%

Extraction Method: EPA 3570  
 Extraction Date: 09/26/20 10:07  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 09/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Mansfield Lab</b>						
N-Nitrosodimethylamine	ND		ug/kg	202	50.9	1
Pyridine	ND		ug/kg	808	35.8	1
Benzaldehyde	ND		ug/kg	202	50.9	1
Aniline	47.7	J	ug/kg	202	30.5	1
bis(2-Chloroethyl)ether	ND		ug/kg	202	37.1	1
Phenol	ND		ug/kg	202	19.2	1
2-Chlorophenol	ND		ug/kg	202	13.3	1
1,3-Dichlorobenzene	ND		ug/kg	202	41.2	1
1,4-Dichlorobenzene	ND		ug/kg	202	42.0	1
1,2-Dichlorobenzene	ND		ug/kg	202	44.0	1
Benzyl alcohol	ND		ug/kg	404	134.	1
bis(2-chloroisopropyl)ether	ND		ug/kg	202	33.7	1
2-Methylphenol	ND		ug/kg	202	17.4	1
Acetophenone	ND		ug/kg	202	25.4	1
Hexachloroethane	ND		ug/kg	202	33.8	1
N-Nitroso-di-n-propylamine	ND		ug/kg	202	34.4	1
4-Methylphenol	ND		ug/kg	202	26.4	1
Nitrobenzene	ND		ug/kg	202	21.0	1
Isophorone	ND		ug/kg	202	22.1	1
2-Nitrophenol	ND		ug/kg	202	21.8	1
2,4-Dimethylphenol	ND		ug/kg	202	33.3	1
Benzoic acid	ND		ug/kg	12100	2560	1
bis(2-Chloroethoxy)methane	ND		ug/kg	202	20.3	1
2,4-Dichlorophenol	ND		ug/kg	202	21.7	1
1,2,4-Trichlorobenzene	ND		ug/kg	202	12.5	1
4-Chloroaniline	ND		ug/kg	202	18.5	1
Hexachlorobutadiene	ND		ug/kg	202	39.2	1
Caprolactam	ND		ug/kg	404	29.7	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Mansfield Lab</b>						
4-Chloro-3-methylphenol	ND		ug/kg	202	29.2	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	202	19.2	1
Hexachlorocyclopentadiene	ND		ug/kg	1210	221.	1
2,4,6-Trichlorophenol	ND		ug/kg	202	18.1	1
2,4,5-Trichlorophenol	ND		ug/kg	202	24.1	1
2-Chloronaphthalene	ND		ug/kg	202	14.1	1
2-Nitroaniline	ND		ug/kg	202	32.6	1
Dimethylphthalate	ND		ug/kg	202	15.8	1
2,6-Dinitrotoluene	ND		ug/kg	202	52.1	1
3-Nitroaniline	ND		ug/kg	404	21.2	1
2,4-Dinitrophenol	ND		ug/kg	1210	344.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	202	35.0	1
2,4-Dinitrotoluene	ND		ug/kg	202	14.1	1
4-Nitrophenol	ND		ug/kg	3350	1110	1
4-Chlorophenyl-phenylether	ND		ug/kg	202	19.5	1
Diethylphthalate	ND		ug/kg	202	20.6	1
4-Nitroaniline	ND		ug/kg	1210	27.3	1
4,6-Dinitro-2-methylphenol	ND		ug/kg	1210	388.	1
Azobenzene	ND		ug/kg	202	14.9	1
n-Nitrosodiphenylamine	ND		ug/kg	202	14.2	1
4-Bromophenyl-phenylether	ND		ug/kg	202	19.0	1
Hexachlorobenzene	ND		ug/kg	202	19.7	1
Atrazine	ND		ug/kg	202	17.5	1
Pentachlorophenol	ND		ug/kg	1210	363.	1
Pentachloronitrobenzene	ND		ug/kg	202	19.9	1
Carbazole	40.8	J	ug/kg	202	12.9	1
Di-n-butylphthalate	57.8	J	ug/kg	202	19.2	1
Benzidine	ND		ug/kg	5660	1310	1
Butylbenzylphthalate	ND		ug/kg	202	40.8	1
3,3'-Dichlorobenzidine	ND		ug/kg	404	34.5	1
bis(2-Ethylhexyl)phthalate	874.		ug/kg	202	52.9	1
Di-n-octylphthalate	ND		ug/kg	404	83.6	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	70		30-130
Phenol-d5	42		30-130
Nitrobenzene-d5	69		30-130
2-Fluorophenol	44		30-130
2,4,6-Tribromophenol	90		30-130
Terphenyl-d14	107		30-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/16/20 09:41  
 Analyst: ML  
 Percent Solids: 82%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/11/20 09:30  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
cis/trans-Decalin	ND		ug/kg	6.33	3.18	1
C1-Decalins	ND		ug/kg	12.7	3.18	1
C2-Decalins	ND		ug/kg	12.7	3.18	1
C3-Decalins	ND		ug/kg	12.7	3.18	1
C4-Decalins	ND		ug/kg	12.7	3.18	1
Naphthalene	76.1		ug/kg	12.7	3.64	1
C1-Naphthalenes	25.6		ug/kg	12.7	3.64	1
C2-Naphthalenes	33.4		ug/kg	12.7	3.64	1
C3-Naphthalenes	24.1		ug/kg	12.7	3.64	1
C4-Naphthalenes	18.7		ug/kg	12.7	3.64	1
2-Methylnaphthalene	20.6		ug/kg	12.7	3.26	1
1-Methylnaphthalene	16.4		ug/kg	12.7	3.99	1
Benzothiophene	ND		ug/kg	12.7	3.96	1
C1-Benzo(b)thiophenes	ND		ug/kg	12.7	3.96	1
C2-Benzo(b)thiophenes	ND		ug/kg	12.7	3.96	1
C3-Benzo(b)thiophenes	ND		ug/kg	12.7	3.96	1
C4-Benzo(b)thiophenes	ND		ug/kg	12.7	3.96	1
Biphenyl	43.6		ug/kg	12.7	3.91	1
Dibenzofuran	13.0		ug/kg	12.7	3.99	1
Acenaphthylene	37.8		ug/kg	12.7	2.42	1
Acenaphthene	11.4	J	ug/kg	12.7	2.23	1
Fluorene	19.1		ug/kg	12.7	3.38	1
C1-Fluorenes	22.5		ug/kg	12.7	3.38	1
C2-Fluorenes	15.4		ug/kg	12.7	3.38	1
C3-Fluorenes	ND		ug/kg	12.7	3.38	1
Dibenzothiophene	13.9		ug/kg	12.7	3.49	1
C1-Dibenzothiophenes BS	8.49	J	ug/kg	12.7	3.49	1
C2-Dibenzothiophenes	17.5		ug/kg	12.7	3.49	1



**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
C3-Dibenzothiophenes	21.5		ug/kg	12.7	3.49	1
C4-Dibenzothiophenes	26.9		ug/kg	12.7	3.49	1
Phenanthrene	295.		ug/kg	12.7	4.20	1
C1-Phenanthrenes/Anthracenes	79.4		ug/kg	12.7	4.20	1
C2-Phenanthrenes/Anthr BS	48.2		ug/kg	12.7	4.20	1
C3-Phenanthrenes/Anthracenes	40.6		ug/kg	12.7	4.20	1
C4-Phenanthrenes/Anthracenes	34.7		ug/kg	12.7	4.20	1
Retene	13.5		ug/kg	12.7	3.11	1
Anthracene	71.3		ug/kg	12.7	2.61	1
Fluoranthene	616.		ug/kg	12.7	4.02	1
Pyrene	522.		ug/kg	12.7	3.33	1
C1-Fluoranthenes/Pyrenes	174.		ug/kg	12.7	3.33	1
C2-Fluoranthenes/Pyrenes	203.		ug/kg	12.7	3.33	1
C3-Fluoranthenes/Pyrenes	112.		ug/kg	12.7	3.33	1
C4-Fluoranthenes/Pyrenes	130.		ug/kg	12.7	3.33	1
Naphthobenzothiophenes	95.8	J	ug/kg	12.7	3.54	1
C1-Naphthobenzothiophenes	67.7		ug/kg	12.7	3.54	1
C2-Naphthobenzothiophenes	112.		ug/kg	12.7	3.54	1
C3-Naphthobenzothiophenes	123.		ug/kg	12.7	3.54	1
C4-Naphthobenzothiophenes	113.		ug/kg	12.7	3.54	1
Benz(a)anthracene	276.		ug/kg	12.7	2.58	1
Chrysene	514.		ug/kg	12.7	2.56	1
C1-Chrysenes	163.		ug/kg	12.7	2.56	1
C2-Chrysenes BS	120.		ug/kg	12.7	2.56	1
C3-Chrysenes	168.		ug/kg	12.7	2.56	1
C4-Chrysenes	160.		ug/kg	12.7	2.56	1
Benzo(b)fluoranthene	531.		ug/kg	12.7	3.29	1
Benzo(j)+(k)fluoranthene	438.		ug/kg	12.7	2.51	1
Benzo(a)fluoranthene	68.4		ug/kg	12.7	2.51	1
Benzo(e)pyrene	407.		ug/kg	12.7	2.61	1
Benzo(a)pyrene	398.		ug/kg	12.7	3.61	1
Perylene	109.		ug/kg	12.7	2.44	1
Indeno(1,2,3-cd)pyrene	385.		ug/kg	12.7	3.44	1
Dibenz(a,h)+(a,c)anthracene	100.		ug/kg	12.7	3.42	1
Benzo(g,h,i)perylene	446.		ug/kg	12.7	3.36	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-01

Date Collected: 09/09/20 10:45

Client ID: REF1\_SE\_20200909

Date Received: 09/10/20

Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	72		50-130
Phenanthrene-d10	98		50-130
Benzo(a)pyrene-d12	92		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/15/20 06:35  
 Analyst: ML  
 Percent Solids: 82%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/11/20 09:30  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
cis/trans-Decalin	4.83		ug/kg	2.44	1.23	1
C1-Decalins	13.0		ug/kg	4.89	1.23	1
C2-Decalins	26.4		ug/kg	4.89	1.23	1
C3-Decalins	27.2		ug/kg	4.89	1.23	1
C4-Decalins	37.4		ug/kg	4.89	1.23	1
Naphthalene	755.		ug/kg	4.89	1.40	1
C1-Naphthalenes	311.		ug/kg	4.89	1.40	1
C2-Naphthalenes	1380		ug/kg	4.89	1.40	1
C3-Naphthalenes	1700		ug/kg	4.89	1.40	1
C4-Naphthalenes	793.		ug/kg	4.89	1.40	1
2-Methylnaphthalene	292.		ug/kg	4.89	1.26	1
1-Methylnaphthalene	165.		ug/kg	4.89	1.54	1
Benzothiophene	31.1		ug/kg	4.89	1.53	1
C1-Benzo(b)thiophenes	20.1		ug/kg	4.89	1.53	1
C2-Benzo(b)thiophenes	50.8		ug/kg	4.89	1.53	1
C3-Benzo(b)thiophenes	77.6		ug/kg	4.89	1.53	1
C4-Benzo(b)thiophenes	43.5		ug/kg	4.89	1.53	1
Biphenyl	173.		ug/kg	4.89	1.51	1
Dibenzofuran	1360		ug/kg	4.89	1.54	1
Acenaphthylene	1180		ug/kg	4.89	0.933	1
Acenaphthene	2000		ug/kg	4.89	0.862	1
Fluorene	2530		ug/kg	4.89	1.30	1
C1-Fluorenes	1430		ug/kg	4.89	1.30	1
C2-Fluorenes	942.		ug/kg	4.89	1.30	1
C3-Fluorenes	437.		ug/kg	4.89	1.30	1
Dibenzothiophene	508.		ug/kg	4.89	1.35	1
C1-Dibenzothiophenes BS	360.		ug/kg	4.89	1.35	1
C2-Dibenzothiophenes	262.		ug/kg	4.89	1.35	1

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
C3-Dibenzothiophenes	159.		ug/kg	4.89	1.35	1
C4-Dibenzothiophenes	63.6		ug/kg	4.89	1.35	1
Phenanthrene	11400	E	ug/kg	4.89	1.62	1
C1-Phenanthrenes/Anthracenes	5480		ug/kg	4.89	1.62	1
C2-Phenanthrenes/Anthr BS	3020		ug/kg	4.89	1.62	1
C3-Phenanthrenes/Anthracenes	1100		ug/kg	4.89	1.62	1
C4-Phenanthrenes/Anthracenes	373.		ug/kg	4.89	1.62	1
Retene	86.6		ug/kg	4.89	1.20	1
Anthracene	4160		ug/kg	4.89	1.01	1
Fluoranthene	13500	E	ug/kg	4.89	1.55	1
Pyrene	10500	E	ug/kg	4.89	1.28	1
C1-Fluoranthenes/Pyrenes	6760		ug/kg	4.89	1.28	1
C2-Fluoranthenes/Pyrenes	2520		ug/kg	4.89	1.28	1
C3-Fluoranthenes/Pyrenes	1120		ug/kg	4.89	1.28	1
C4-Fluoranthenes/Pyrenes	610.		ug/kg	4.89	1.28	1
Naphthobenzothiophenes	538.		ug/kg	4.89	1.37	1
C1-Naphthobenzothiophenes	396.		ug/kg	4.89	1.37	1
C2-Naphthobenzothiophenes	229.		ug/kg	4.89	1.37	1
C3-Naphthobenzothiophenes	163.		ug/kg	4.89	1.37	1
C4-Naphthobenzothiophenes	97.7		ug/kg	4.89	1.37	1
Benz(a)anthracene	9580	E	ug/kg	4.89	0.997	1
Chrysene	7590	E	ug/kg	4.89	0.988	1
C1-Chrysenes	4470		ug/kg	4.89	0.988	1
C2-Chrysenes BS	2360		ug/kg	4.89	0.988	1
C3-Chrysenes	1960		ug/kg	4.89	0.988	1
C4-Chrysenes	700.		ug/kg	4.89	0.988	1
Benzo(b)fluoranthene	6040		ug/kg	4.89	1.27	1
Benzo(j)+(k)fluoranthene	5720		ug/kg	4.89	0.970	1
Benzo(a)fluoranthene	2060		ug/kg	4.89	0.970	1
Benzo(e)pyrene	4100		ug/kg	4.89	1.01	1
Benzo(a)pyrene	7650	E	ug/kg	4.89	1.40	1
Perylene	1980		ug/kg	4.89	0.944	1
Indeno(1,2,3-cd)pyrene	4420		ug/kg	4.89	1.33	1
Dibenz(a,h)+(a,c)anthracene	1270		ug/kg	4.89	1.32	1
Benzo(g,h,i)perylene	4160		ug/kg	4.89	1.30	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	88		50-130
Phenanthrene-d10	91		50-130
Benzo(a)pyrene-d12	111		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02 D  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D  
 Analytical Date: 09/24/20 00:59  
 Analyst: PS  
 Percent Solids: 82%

Extraction Method: EPA 3570  
 Extraction Date: 09/11/20 11:36  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 09/16/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Mansfield Lab</b>						
N-Nitrosodimethylamine	ND		ug/kg	80.2	20.2	2
Pyridine	ND		ug/kg	321	14.2	2
Benzaldehyde	ND		ug/kg	80.2	20.2	2
Aniline	ND		ug/kg	80.2	12.1	2
bis(2-Chloroethyl)ether	ND		ug/kg	80.2	14.7	2
Phenol	ND		ug/kg	80.2	7.62	2
2-Chlorophenol	ND		ug/kg	80.2	5.29	2
1,3-Dichlorobenzene	ND		ug/kg	80.2	16.4	2
1,4-Dichlorobenzene	ND		ug/kg	80.2	16.7	2
1,2-Dichlorobenzene	ND		ug/kg	80.2	17.5	2
Benzyl alcohol	ND		ug/kg	160	53.2	2
bis(2-chloroisopropyl)ether	ND		ug/kg	80.2	13.4	2
2-Methylphenol	40.7	J	ug/kg	80.2	6.90	2
Acetophenone	ND		ug/kg	80.2	10.1	2
Hexachloroethane	ND		ug/kg	80.2	13.4	2
N-Nitroso-di-n-propylamine	ND		ug/kg	80.2	13.6	2
4-Methylphenol	90.1		ug/kg	80.2	10.5	2
Nitrobenzene	ND		ug/kg	80.2	8.35	2
Isophorone	ND		ug/kg	80.2	8.79	2
2-Nitrophenol	ND		ug/kg	80.2	8.64	2
2,4-Dimethylphenol	43.0	J	ug/kg	80.2	13.2	2
Benzoic acid	ND		ug/kg	4810	1020	2
bis(2-Chloroethoxy)methane	ND		ug/kg	80.2	8.06	2
2,4-Dichlorophenol	ND		ug/kg	80.2	8.61	2
1,2,4-Trichlorobenzene	ND		ug/kg	80.2	4.95	2
4-Chloroaniline	ND		ug/kg	80.2	7.33	2
Hexachlorobutadiene	ND		ug/kg	80.2	15.6	2
Caprolactam	ND		ug/kg	160	11.8	2

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**SAMPLE RESULTS**

Lab ID: L2037437-02 D  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Mansfield Lab</b>						
4-Chloro-3-methylphenol	ND		ug/kg	80.2	11.6	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	80.2	7.63	2
Hexachlorocyclopentadiene	ND		ug/kg	481	87.9	2
2,4,6-Trichlorophenol	ND		ug/kg	80.2	7.17	2
2,4,5-Trichlorophenol	ND		ug/kg	80.2	9.56	2
2-Chloronaphthalene	ND		ug/kg	80.2	5.58	2
2-Nitroaniline	ND		ug/kg	80.2	13.0	2
Dimethylphthalate	ND		ug/kg	80.2	6.25	2
2,6-Dinitrotoluene	ND		ug/kg	80.2	20.7	2
3-Nitroaniline	ND		ug/kg	160	8.42	2
2,4-Dinitrophenol	ND		ug/kg	481	137.	2
2,3,4,6-Tetrachlorophenol	ND		ug/kg	80.2	13.9	2
2,4-Dinitrotoluene	ND		ug/kg	80.2	5.61	2
4-Nitrophenol	ND		ug/kg	1330	441.	2
4-Chlorophenyl-phenylether	ND		ug/kg	80.2	7.73	2
Diethylphthalate	ND		ug/kg	80.2	8.19	2
4-Nitroaniline	ND		ug/kg	481	10.8	2
4,6-Dinitro-2-methylphenol	ND		ug/kg	481	154.	2
Azobenzene	ND		ug/kg	80.2	5.92	2
n-Nitrosodiphenylamine	ND		ug/kg	80.2	5.63	2
4-Bromophenyl-phenylether	ND		ug/kg	80.2	7.54	2
Hexachlorobenzene	ND		ug/kg	80.2	7.81	2
Atrazine	ND		ug/kg	80.2	6.96	2
Pentachlorophenol	ND		ug/kg	481	144.	2
Pentachloronitrobenzene	ND		ug/kg	80.2	7.90	2
Carbazole	188.		ug/kg	80.2	5.12	2
Di-n-butylphthalate	ND		ug/kg	80.2	7.63	2
Benzidine	ND		ug/kg	2240	520.	2
Butylbenzylphthalate	ND		ug/kg	80.2	16.2	2
3,3'-Dichlorobenzidine	ND		ug/kg	160	13.7	2
bis(2-Ethylhexyl)phthalate	ND		ug/kg	80.2	21.0	2
Di-n-octylphthalate	ND		ug/kg	160	33.2	2



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02 D  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	39		30-130
Phenol-d5	31		30-130
Nitrobenzene-d5	38		30-130
2-Fluorophenol	<b>27</b>	Q	30-130
2,4,6-Tribromophenol	43		30-130
Terphenyl-d14	38		30-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02 D  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM(M)  
 Analytical Date: 09/17/20 10:41  
 Analyst: ML  
 Percent Solids: 82%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/11/20 09:30  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs - Mansfield Lab</b>						
Phenanthrene	13500		ug/kg	48.9	16.2	10
Fluoranthene	20700		ug/kg	48.9	15.5	10
Pyrene	16200		ug/kg	48.9	12.8	10
Benz(a)anthracene	7630		ug/kg	48.9	9.97	10
Chrysene	6380		ug/kg	48.9	9.88	10
Benzo(a)pyrene	6230		ug/kg	48.9	14.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	79		50-130
Phenanthrene-d10	113		50-130
Benzo(a)pyrene-d12	96		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/14/20 17:49  
Analyst: ML

Extraction Method: ALPHA OP-013  
Extraction Date: 09/11/20 09:30  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-02 Batch: WG1408763-1					
cis/trans-Decalin	ND		ug/kg	0.500	0.251
C1-Decalins	ND		ug/kg	1.00	0.251
C2-Decalins	ND		ug/kg	1.00	0.251
C3-Decalins	ND		ug/kg	1.00	0.251
C4-Decalins	ND		ug/kg	1.00	0.251
Naphthalene	ND		ug/kg	1.00	0.287
C1-Naphthalenes	ND		ug/kg	1.00	0.287
C2-Naphthalenes	ND		ug/kg	1.00	0.287
C3-Naphthalenes	ND		ug/kg	1.00	0.287
C4-Naphthalenes	ND		ug/kg	1.00	0.287
2-Methylnaphthalene	ND		ug/kg	1.00	0.258
1-Methylnaphthalene	ND		ug/kg	1.00	0.315
Benzothiophene	ND		ug/kg	1.00	0.313
C1-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C2-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C3-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C4-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
Biphenyl	ND		ug/kg	1.00	0.309
Dibenzofuran	ND		ug/kg	1.00	0.315
Acenaphthylene	ND		ug/kg	1.00	0.191
Acenaphthene	ND		ug/kg	1.00	0.176
Fluorene	ND		ug/kg	1.00	0.267
C1-Fluorenes	ND		ug/kg	1.00	0.267
C2-Fluorenes	ND		ug/kg	1.00	0.267
C3-Fluorenes	ND		ug/kg	1.00	0.267
Dibenzothiophene	ND		ug/kg	1.00	0.276
C1-Dibenzothiophenes BS	ND		ug/kg	1.00	0.276
C2-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C3-Dibenzothiophenes	ND		ug/kg	1.00	0.276

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/14/20 17:49  
Analyst: ML

Extraction Method: ALPHA OP-013  
Extraction Date: 09/11/20 09:30  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-02 Batch: WG1408763-1					
C4-Dibenzothiophenes	ND		ug/kg	1.00	0.276
Phenanthrene	ND		ug/kg	1.00	0.331
C1-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C2-Phenanthrenes/Anthr BS	ND		ug/kg	1.00	0.331
C3-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C4-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
Retene	ND		ug/kg	1.00	0.245
Anthracene	ND		ug/kg	1.00	0.206
Fluoranthene	ND		ug/kg	1.00	0.318
Pyrene	ND		ug/kg	1.00	0.263
C1-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C2-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C3-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C4-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C1-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C2-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C3-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C4-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
Benz(a)anthracene	ND		ug/kg	1.00	0.204
Chrysene	ND		ug/kg	1.00	0.202
C1-Chrysenes	ND		ug/kg	1.00	0.202
C2-Chrysenes BS	ND		ug/kg	1.00	0.202
C3-Chrysenes	ND		ug/kg	1.00	0.202
C4-Chrysenes	ND		ug/kg	1.00	0.202
Benzo(b)fluoranthene	ND		ug/kg	1.00	0.260
Benzo(j)+(k)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(a)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(e)pyrene	ND		ug/kg	1.00	0.206

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/14/20 17:49  
Analyst: ML

Extraction Method: ALPHA OP-013  
Extraction Date: 09/11/20 09:30  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-02 Batch: WG1408763-1					
Benzo(a)pyrene	ND		ug/kg	1.00	0.285
Perylene	0.559	J	ug/kg	1.00	0.193
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1.00	0.271
Dibenz(a,h)+(a,c)anthracene	ND		ug/kg	1.00	0.270
Benzo(g,h,i)perylene	ND		ug/kg	1.00	0.266

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	86		50-130
Phenanthrene-d10	107		50-130
Benzo(a)pyrene-d12	102		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/18/20 12:48  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/11/20 11:36  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/16/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG1408773-1					
N-Nitrosodimethylamine	ND		ug/kg	33.3	8.40
Pyridine	ND		ug/kg	133	5.90
Benzaldehyde	ND		ug/kg	33.3	8.40
Aniline	ND		ug/kg	33.3	5.03
bis(2-Chloroethyl)ether	ND		ug/kg	33.3	6.12
Phenol	ND		ug/kg	33.3	3.17
2-Chlorophenol	ND		ug/kg	33.3	2.20
1,3-Dichlorobenzene	ND		ug/kg	33.3	6.80
1,4-Dichlorobenzene	ND		ug/kg	33.3	6.93
1,2-Dichlorobenzene	ND		ug/kg	33.3	7.27
Benzyl alcohol	ND		ug/kg	66.7	22.1
bis(2-chloroisopropyl)ether	ND		ug/kg	33.3	5.56
2-Methylphenol	ND		ug/kg	33.3	2.87
Acetophenone	ND		ug/kg	33.3	4.20
Hexachloroethane	ND		ug/kg	33.3	5.57
N-Nitroso-di-n-propylamine	ND		ug/kg	33.3	5.67
4-Methylphenol	ND		ug/kg	33.3	4.36
Nitrobenzene	ND		ug/kg	33.3	3.47
Isophorone	ND		ug/kg	33.3	3.65
2-Nitrophenol	ND		ug/kg	33.3	3.59
2,4-Dimethylphenol	ND		ug/kg	33.3	5.49
Benzoic acid	ND		ug/kg	2000	423.
bis(2-Chloroethoxy)methane	ND		ug/kg	33.3	3.35
2,4-Dichlorophenol	ND		ug/kg	33.3	3.58
1,2,4-Trichlorobenzene	ND		ug/kg	33.3	2.06
4-Chloroaniline	ND		ug/kg	33.3	3.05
Hexachlorobutadiene	ND		ug/kg	33.3	6.47
Caprolactam	ND		ug/kg	66.7	4.89
4-Chloro-3-methylphenol	ND		ug/kg	33.3	4.81

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/18/20 12:48  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/11/20 11:36  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/16/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG1408773-1					
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	33.3	3.17
Hexachlorocyclopentadiene	ND		ug/kg	200	36.5
2,4,6-Trichlorophenol	ND		ug/kg	33.3	2.98
2,4,5-Trichlorophenol	ND		ug/kg	33.3	3.97
2-Chloronaphthalene	ND		ug/kg	33.3	2.32
2-Nitroaniline	ND		ug/kg	33.3	5.39
Dimethylphthalate	ND		ug/kg	33.3	2.60
2,6-Dinitrotoluene	ND		ug/kg	33.3	8.60
3-Nitroaniline	ND		ug/kg	66.7	3.50
2,4-Dinitrophenol	ND		ug/kg	200	56.8
2,3,4,6-Tetrachlorophenol	ND		ug/kg	33.3	5.77
2,4-Dinitrotoluene	ND		ug/kg	33.3	2.33
4-Nitrophenol	ND		ug/kg	553	183.
4-Chlorophenyl-phenylether	ND		ug/kg	33.3	3.21
Diethylphthalate	ND		ug/kg	33.3	3.41
4-Nitroaniline	ND		ug/kg	200	4.50
4,6-Dinitro-2-methylphenol	ND		ug/kg	200	64.0
Azobenzene	ND		ug/kg	33.3	2.46
n-Nitrosodiphenylamine	ND		ug/kg	33.3	2.34
4-Bromophenyl-phenylether	ND		ug/kg	33.3	3.13
Hexachlorobenzene	ND		ug/kg	33.3	3.25
Atrazine	ND		ug/kg	33.3	2.89
Pentachlorophenol	ND		ug/kg	200	59.9
Pentachloronitrobenzene	ND		ug/kg	33.3	3.29
Carbazole	ND		ug/kg	33.3	2.13
Di-n-butylphthalate	ND		ug/kg	33.3	3.17
Benzidine	ND		ug/kg	933	216.
Butylbenzylphthalate	ND		ug/kg	33.3	6.73
3,3'-Dichlorobenzidine	ND		ug/kg	66.7	5.69



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/18/20 12:48  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/11/20 11:36  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/16/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 02 Batch: WG1408773-1					
bis(2-Ethylhexyl)phthalate	ND		ug/kg	33.3	8.73
Di-n-octylphthalate	ND		ug/kg	66.7	13.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	42		30-130
Phenol-d5	42		30-130
Nitrobenzene-d5	47		30-130
2-Fluorophenol	37		30-130
2,4,6-Tribromophenol	39		30-130
Terphenyl-d14	49		30-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/30/20 09:47  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/26/20 10:07  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/29/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1414420-1					
N-Nitrosodimethylamine	ND		ug/kg	33.3	8.40
Pyridine	ND		ug/kg	133	5.90
Benzaldehyde	ND		ug/kg	33.3	8.40
Aniline	ND		ug/kg	33.3	5.03
bis(2-Chloroethyl)ether	ND		ug/kg	33.3	6.12
Phenol	ND		ug/kg	33.3	3.17
2-Chlorophenol	ND		ug/kg	33.3	2.20
1,3-Dichlorobenzene	ND		ug/kg	33.3	6.80
1,4-Dichlorobenzene	ND		ug/kg	33.3	6.93
1,2-Dichlorobenzene	ND		ug/kg	33.3	7.27
Benzyl alcohol	ND		ug/kg	66.7	22.1
bis(2-chloroisopropyl)ether	ND		ug/kg	33.3	5.56
2-Methylphenol	ND		ug/kg	33.3	2.87
Acetophenone	ND		ug/kg	33.3	4.20
Hexachloroethane	ND		ug/kg	33.3	5.57
N-Nitroso-di-n-propylamine	ND		ug/kg	33.3	5.67
4-Methylphenol	ND		ug/kg	33.3	4.36
Nitrobenzene	ND		ug/kg	33.3	3.47
Isophorone	ND		ug/kg	33.3	3.65
2-Nitrophenol	ND		ug/kg	33.3	3.59
2,4-Dimethylphenol	ND		ug/kg	33.3	5.49
Benzoic acid	ND		ug/kg	2000	423.
bis(2-Chloroethoxy)methane	ND		ug/kg	33.3	3.35
2,4-Dichlorophenol	ND		ug/kg	33.3	3.58
1,2,4-Trichlorobenzene	ND		ug/kg	33.3	2.06
4-Chloroaniline	ND		ug/kg	33.3	3.05
Hexachlorobutadiene	ND		ug/kg	33.3	6.47
Caprolactam	ND		ug/kg	66.7	4.89
4-Chloro-3-methylphenol	ND		ug/kg	33.3	4.81

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/30/20 09:47  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/26/20 10:07  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/29/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1414420-1					
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	33.3	3.17
Hexachlorocyclopentadiene	ND		ug/kg	200	36.5
2,4,6-Trichlorophenol	ND		ug/kg	33.3	2.98
2,4,5-Trichlorophenol	ND		ug/kg	33.3	3.97
2-Chloronaphthalene	ND		ug/kg	33.3	2.32
2-Nitroaniline	ND		ug/kg	33.3	5.39
Dimethylphthalate	ND		ug/kg	33.3	2.60
2,6-Dinitrotoluene	ND		ug/kg	33.3	8.60
3-Nitroaniline	ND		ug/kg	66.7	3.50
2,4-Dinitrophenol	ND		ug/kg	200	56.8
2,3,4,6-Tetrachlorophenol	ND		ug/kg	33.3	5.77
2,4-Dinitrotoluene	ND		ug/kg	33.3	2.33
4-Nitrophenol	ND		ug/kg	553	183.
4-Chlorophenyl-phenylether	ND		ug/kg	33.3	3.21
Diethylphthalate	ND		ug/kg	33.3	3.41
4-Nitroaniline	ND		ug/kg	200	4.50
4,6-Dinitro-2-methylphenol	ND		ug/kg	200	64.0
Azobenzene	ND		ug/kg	33.3	2.46
n-Nitrosodiphenylamine	ND		ug/kg	33.3	2.34
4-Bromophenyl-phenylether	ND		ug/kg	33.3	3.13
Hexachlorobenzene	ND		ug/kg	33.3	3.25
Atrazine	ND		ug/kg	33.3	2.89
Pentachlorophenol	ND		ug/kg	200	59.9
Pentachloronitrobenzene	ND		ug/kg	33.3	3.29
Carbazole	ND		ug/kg	33.3	2.13
Di-n-butylphthalate	ND		ug/kg	33.3	3.17
Benzidine	ND		ug/kg	933	216.
Butylbenzylphthalate	ND		ug/kg	33.3	6.73
3,3'-Dichlorobenzidine	ND		ug/kg	66.7	5.69

**Project Name:** FORMER BRAMLETTE MGP SITE  
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**Lab Number:** L2037437  
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**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/30/20 09:47  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 09/26/20 10:07  
Cleanup Method: EPA 3640A  
Cleanup Date: 09/29/20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Mansfield Lab for sample(s): 01 Batch: WG1414420-1					
bis(2-Ethylhexyl)phthalate	ND		ug/kg	33.3	8.73
Di-n-octylphthalate	ND		ug/kg	66.7	13.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorobiphenyl	58		30-130
Phenol-d5	44		30-130
Nitrobenzene-d5	59		30-130
2-Fluorophenol	45		30-130
2,4,6-Tribromophenol	61		30-130
Terphenyl-d14	91		30-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
PAHs - Mansfield Lab Associated sample(s): 01-02 Batch: WG1408763-2 WG1408763-3								
Naphthalene	91		92		50-130	1		30
2-Methylnaphthalene	91		92		50-130	1		30
Acenaphthylene	88		87		50-130	1		30
Acenaphthene	93		93		50-130	0		30
Fluorene	94		96		50-130	2		30
Phenanthrene	101		102		50-130	1		30
Anthracene	100		102		50-130	2		30
Fluoranthene	85		87		50-130	2		30
Pyrene	88		89		50-130	1		30
Benz(a)anthracene	96		96		50-130	0		30
Chrysene	100		101		50-130	1		30
Benzo(b)fluoranthene	104		103		50-130	1		30
Benzo(j)+(k)fluoranthene	107		107		50-130	0		30
Benzo(a)pyrene	100		101		50-130	1		30
Indeno(1,2,3-cd)pyrene	100		103		50-130	3		30
Dibenz(a,h)+(a,c)anthracene	105		106		50-130	1		30
Benzo(g,h,i)perylene	99		100		50-130	1		30

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PAHs - Mansfield Lab Associated sample(s): 01-02 Batch: WG1408763-2 WG1408763-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Naphthalene-d8	97		95		50-130
Phenanthrene-d10	106		104		50-130
Benzo(a)pyrene-d12	111		111		50-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: FORMER BRAMLETTE MGP SITE

Lab Number: L2037437

Project Number: MGPBRAM

Report Date: 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG1408773-2 WG1408773-3								
N-Nitrosodimethylamine	85		95	Q	27-88	11		30
Pyridine	63		77		10-105	20		30
Benzaldehyde	71		82	Q	26-77	14		30
Aniline	57		65		25-84	13		30
bis(2-Chloroethyl)ether	67		76		40-140	13		30
Phenol	71		81		30-130	13		30
2-Chlorophenol	57		65		30-130	13		30
1,3-Dichlorobenzene	47		54		40-140	14		30
1,4-Dichlorobenzene	47		53		40-140	12		30
1,2-Dichlorobenzene	49		56		40-140	13		30
bis(2-chloroisopropyl)ether	81		92		40-140	13		30
2-Methylphenol	65		73		30-130	12		30
Acetophenone	77		88		40-140	13		30
Hexachloroethane	49		56		25-81	13		30
N-Nitroso-di-n-propylamine	83		93		40-140	11		30
4-Methylphenol	66		74		30-130	11		30
Nitrobenzene	72		80		40-140	11		30
Isophorone	81		86		40-140	6		30
2-Nitrophenol	78		85		30-130	9		30
2,4-Dimethylphenol	68		76		30-130	11		30
Benzoic acid	0	Q	3	Q	10-44	NC		30
bis(2-Chloroethoxy)methane	71		77		40-140	8		30
2,4-Dichlorophenol	61		66		30-130	8		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG1408773-2 WG1408773-3								
1,2,4-Trichlorobenzene	52		59		40-140	13		30
4-Chloroaniline	64		69		40-140	8		30
Hexachlorobutadiene	58		65		40-140	11		30
Caprolactam	94		98		40-140	4		30
4-Chloro-3-methylphenol	78		83		30-130	6		30
1,2,4,5-Tetrachlorobenzene	61		67		40-140	9		30
Hexachlorocyclopentadiene	42		53		12-87	23		30
2,4,6-Trichlorophenol	68		72		30-130	6		30
2,4,5-Trichlorophenol	66		74		30-130	11		30
2-Chloronaphthalene	60		66		40-140	10		30
2-Nitroaniline	91		97		40-140	6		30
Dimethylphthalate	75		82		40-140	9		30
2,6-Dinitrotoluene	74		80		40-140	8		30
3-Nitroaniline	76		82		40-140	8		30
2,4-Dinitrophenol	31		45		10-96	37	Q	30
2,3,4,6-Tetrachlorophenol	66		78		30-130	17		30
2,4-Dinitrotoluene	80		86		40-140	7		30
4-Nitrophenol	32		47		30-130	38	Q	30
4-Chlorophenyl-phenylether	72		81		40-140	12		30
Diethylphthalate	78		86		40-140	10		30
4-Nitroaniline	87		95		40-140	9		30
4,6-Dinitro-2-methylphenol	67		75		30-130	11		30
Azobenzene	70		76		40-140	8		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 Batch: WG1408773-2 WG1408773-3								
n-Nitrosodiphenylamine	76		79		40-140	4		30
4-Bromophenyl-phenylether	76		77		40-140	1		30
Hexachlorobenzene	72		75		40-140	4		30
Atrazine	90		93		40-140	3		30
Pentachlorophenol	39		47		30-130	19		30
Carbazole	76		77		40-140	1		30
Di-n-butylphthalate	87		90		40-140	3		30
Benzidine	29		37		10-72	24		30
Butylbenzylphthalate	79		84		40-140	6		30
3,3'-Dichlorobenzidine	85		88		40-140	3		30
bis(2-Ethylhexyl)phthalate	83		88		40-140	6		30
Di-n-octylphthalate	86		92		40-140	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorobiphenyl	68		72		30-130
Phenol-d5	65		71		30-130
Nitrobenzene-d5	75		79		30-130
2-Fluorophenol	54		59		30-130
2,4,6-Tribromophenol	77		80		30-130
Terphenyl-d14	80		81		30-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1414420-2 WG1414420-3								
N-Nitrosodimethylamine	35		50		27-88	35	Q	30
Pyridine	29		42		10-105	37	Q	30
Benzaldehyde	52		61		26-77	16		30
Aniline	34		44		25-84	26		30
bis(2-Chloroethyl)ether	51		61		40-140	18		30
Phenol	53		62		30-130	16		30
2-Chlorophenol	59		66		30-130	11		30
1,3-Dichlorobenzene	60		66		40-140	10		30
1,4-Dichlorobenzene	59		66		40-140	11		30
1,2-Dichlorobenzene	61		66		40-140	8		30
bis(2-chloroisopropyl)ether	50		59		40-140	17		30
2-Methylphenol	57		63		30-130	10		30
Acetophenone	59		64		40-140	8		30
Hexachloroethane	63		68		25-81	8		30
N-Nitroso-di-n-propylamine	55		62		40-140	12		30
4-Methylphenol	55		59		30-130	7		30
Nitrobenzene	62		73		40-140	16		30
Isophorone	60		69		40-140	14		30
2-Nitrophenol	63		72		30-130	13		30
2,4-Dimethylphenol	60		67		30-130	11		30
Benzoic acid	27		21		10-44	25		30
bis(2-Chloroethoxy)methane	59		69		40-140	16		30
2,4-Dichlorophenol	62		70		30-130	12		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1414420-2 WG1414420-3								
1,2,4-Trichlorobenzene	64		71		40-140	10		30
4-Chloroaniline	48		56		40-140	15		30
Hexachlorobutadiene	72		78		40-140	8		30
Caprolactam	87		89		40-140	2		30
4-Chloro-3-methylphenol	70		74		30-130	6		30
1,2,4,5-Tetrachlorobenzene	69		77		40-140	11		30
Hexachlorocyclopentadiene	59		67		12-87	13		30
2,4,6-Trichlorophenol	66		74		30-130	11		30
2,4,5-Trichlorophenol	72		79		30-130	9		30
2-Chloronaphthalene	65		71		40-140	9		30
2-Nitroaniline	73		79		40-140	8		30
Dimethylphthalate	75		80		40-140	6		30
2,6-Dinitrotoluene	77		84		40-140	9		30
3-Nitroaniline	72		75		40-140	4		30
2,4-Dinitrophenol	61		58		10-96	5		30
2,3,4,6-Tetrachlorophenol	80		82		30-130	2		30
2,4-Dinitrotoluene	84		86		40-140	2		30
4-Nitrophenol	64		68		30-130	6		30
4-Chlorophenyl-phenylether	70		74		40-140	6		30
Diethylphthalate	84		85		40-140	1		30
4-Nitroaniline	76		77		40-140	1		30
4,6-Dinitro-2-methylphenol	72		76		30-130	5		30
Azobenzene	69		77		40-140	11		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 01 Batch: WG1414420-2 WG1414420-3								
n-Nitrosodiphenylamine	79		85		40-140	7		30
4-Bromophenyl-phenylether	78		84		40-140	7		30
Hexachlorobenzene	78		84		40-140	7		30
Atrazine	89		92		40-140	3		30
Pentachlorophenol	71		72		30-130	1		30
Carbazole	79		81		40-140	3		30
Di-n-butylphthalate	87		92		40-140	6		30
Benzidine	9	Q	9	Q	10-72	9		30
Butylbenzylphthalate	100		102		40-140	2		30
3,3'-Dichlorobenzidine	77		73		40-140	5		30
bis(2-Ethylhexyl)phthalate	88		92		40-140	4		30
Di-n-octylphthalate	102		99		40-140	3		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorobiphenyl	67		72		30-130
Phenol-d5	50		59		30-130
Nitrobenzene-d5	62		73		30-130
2-Fluorophenol	45		57		30-130
2,4,6-Tribromophenol	86		88		30-130
Terphenyl-d14	96		94		30-130

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
PAHs - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1408763-4 WG1408763-5 QC Sample: L2037437-02 Client ID: SW_SE_20200909												
Naphthalene	755	385	783	<b>7</b>	Q	1780	<b>256</b>	Q	50-150	<b>78</b>	Q	30
2-Methylnaphthalene	292	385	544	<b>66</b>		1050	<b>190</b>	Q	50-150	<b>63</b>	Q	30
Acenaphthylene	1180	385	1160	<b>0</b>	Q	2680	<b>375</b>	Q	50-150	<b>79</b>	Q	30
Acenaphthene	2000	385	1540	<b>0</b>	Q	7580	<b>1400</b>	Q	50-150	<b>132</b>	Q	30
Fluorene	2530	385	2000	<b>0</b>	Q	10000	<b>1870</b>	Q	50-150	<b>133</b>	Q	30
Phenanthrene	13500	385	9250	<b>0</b>	Q	46600	<b>8280</b>	Q	50-150	<b>134</b>	Q	30
Anthracene	4160	385	4140	<b>0</b>	Q	17700	<b>3390</b>	Q	50-150	<b>124</b>	Q	30
Fluoranthene	20700	385	15800	<b>0</b>	Q	40800	<b>5030</b>	Q	50-150	<b>88</b>	Q	30
Pyrene	16200	385	12600	<b>0</b>	Q	31600	<b>3850</b>	Q	50-150	<b>86</b>	Q	30
Benz(a)anthracene	7630	385	6100	<b>0</b>	Q	14600	<b>1740</b>	Q	50-150	<b>82</b>	Q	30
Chrysene	6380	385	5380	<b>0</b>	Q	11700	<b>1330</b>	Q	50-150	<b>74</b>	Q	30
Benzo(b)fluoranthene	6040	385	3710	<b>0</b>	Q	8040	<b>500</b>	Q	50-150	<b>74</b>	Q	30
Benzo(j)+(k)fluoranthene	5720	385	4360	<b>0</b>	Q	10100	<b>1100</b>	Q	50-150	<b>79</b>	Q	30
Benzo(a)pyrene	6230	385	5070	<b>0</b>	Q	12000	<b>1440</b>	Q	50-150	<b>81</b>	Q	30
Indeno(1,2,3-cd)pyrene	4420	385	2840	<b>0</b>	Q	6340	<b>480</b>	Q	50-150	<b>76</b>	Q	30
Dibenz(a,h)+(a,c)anthracene	1270	385	1240	<b>0</b>	Q	2620	<b>338</b>	Q	50-150	<b>72</b>	Q	30
Benzo(g,h,i)perylene	4160	385	2650	<b>0</b>	Q	5900	<b>435</b>	Q	50-150	<b>76</b>	Q	30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Benzo(a)pyrene-d12	106		111		50-130
Benzo(a)pyrene-d12	107		108		50-130
Naphthalene-d8	89		101		50-130
Naphthalene-d8	90		84		50-130

### Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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PAHs - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1408763-4 WG1408763-5 QC Sample: L2037437-02 Client ID: SW\_SE\_20200909

<b>Surrogate</b>	<b>MS</b>		<b>MSD</b>		<b>Acceptance Criteria</b>
	<b>% Recovery</b>	<b>Qualifier</b>	<b>% Recovery</b>	<b>Qualifier</b>	
Phenanthrene-d10	124		118		50-130
Phenanthrene-d10	91		86		50-130



## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1408773-4 WG1408773-5 QC Sample: L2037437-02 Client ID: SW_SE_20200909												
N-Nitrosodimethylamine	ND	802	218	27		183	23	Q	27-88	17		30
Pyridine	ND	642	45.7J	7	Q	70.7J	11		10-105	43	Q	30
Benzaldehyde	ND	802	132	17	Q	239	29		26-77	58	Q	30
Aniline	ND	802	47.8J	6	Q	116	14	Q	25-84	83	Q	30
bis(2-Chloroethyl)ether	ND	802	283	35	Q	222	27	Q	40-140	24		30
Phenol	ND	802	368	46		311	38		30-130	17		30
2-Chlorophenol	ND	802	322	40		270	33		30-130	18		30
1,3-Dichlorobenzene	ND	802	261	33	Q	239	29	Q	40-140	9		30
1,4-Dichlorobenzene	ND	802	258	32	Q	229	28	Q	40-140	12		30
1,2-Dichlorobenzene	ND	802	280	35	Q	241	30	Q	40-140	15		30
bis(2-chloroisopropyl)ether	ND	802	276	34	Q	220	27	Q	40-140	23		30
2-Methylphenol	40.7J	802	397	50		322	40		30-130	21		30
Acetophenone	ND	802	404	50		300	37	Q	40-140	30		30
Hexachloroethane	ND	802	245	31		230	28		25-81	6		30
N-Nitroso-di-n-propylamine	ND	802	355	44		263	32	Q	40-140	30		30
4-Methylphenol	90.1	802	421	41		368	34		30-130	13		30
Nitrobenzene	ND	802	349	44		267	33	Q	40-140	27		30
Isophorone	ND	802	382	48		270	33	Q	40-140	34	Q	30
2-Nitrophenol	ND	802	386	48		316	39		30-130	20		30
2,4-Dimethylphenol	43.0J	802	411	51		358	44		30-130	14		30
Benzoic acid	ND	4010	ND	0	Q	ND	0	Q	10-44	NC		30
bis(2-Chloroethoxy)methane	ND	802	402	50		295	36	Q	40-140	31	Q	30
2,4-Dichlorophenol	ND	802	380	47		284	35		30-130	29		30



## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** FORMER BRAMLETTE MGP SITE

**Lab Number:** L2037437

**Project Number:** MGPBRAM

**Report Date:** 09/30/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1408773-4 WG1408773-5 QC Sample: L2037437-02 Client ID: SW_SE_20200909												
1,2,4-Trichlorobenzene	ND	802	376	47		285	35	Q	40-140	28		30
4-Chloroaniline	ND	802	102	13	Q	180	22	Q	40-140	55	Q	30
Hexachlorobutadiene	ND	802	349	44		278	34	Q	40-140	23		30
Caprolactam	ND	802	366	46		372	46		40-140	2		30
4-Chloro-3-methylphenol	ND	802	455	57		314	39		30-130	37	Q	30
1,2,4,5-Tetrachlorobenzene	ND	802	437	55		313	38	Q	40-140	33	Q	30
Hexachlorocyclopentadiene	ND	802	ND	0	Q	ND	0	Q	12-87	NC		30
2,4,6-Trichlorophenol	ND	802	461	58		306	38		30-130	40	Q	30
2,4,5-Trichlorophenol	ND	802	348	43		275	34		30-130	23		30
2-Chloronaphthalene	ND	802	440	55		313	38	Q	40-140	34	Q	30
2-Nitroaniline	ND	802	465	58		229	28	Q	40-140	68	Q	30
Dimethylphthalate	ND	802	486	61		322	40	Q	40-140	41	Q	30
2,6-Dinitrotoluene	ND	802	482	60		292	36	Q	40-140	49	Q	30
3-Nitroaniline	ND	802	254	32	Q	261	32	Q	40-140	3		30
2,4-Dinitrophenol	ND	802	ND	0	Q	ND	0	Q	10-96	NC		30
2,3,4,6-Tetrachlorophenol	ND	802	354	44		258	32		30-130	31	Q	30
2,4-Dinitrotoluene	ND	802	ND	0	Q	213	26	Q	40-140	NC		30
4-Nitrophenol	ND	802	ND	0	Q	ND	0	Q	30-130	NC		30
4-Chlorophenyl-phenylether	ND	802	459	57		297	37	Q	40-140	43	Q	30
Diethylphthalate	ND	802	470	59		228	28	Q	40-140	69	Q	30
4-Nitroaniline	ND	802	177.J	22	Q	280.J	34	Q	40-140	45	Q	30
4,6-Dinitro-2-methylphenol	ND	802	ND	0	Q	ND	0	Q	30-130	NC		30
Azobenzene	ND	802	7250	904	Q	9380E	1150	Q	40-140	26		30

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1408773-4 WG1408773-5 QC Sample: L2037437-02 Client ID: SW_SE_20200909												
n-Nitrosodiphenylamine	ND	802	566	71		642	79		40-140	13		30
4-Bromophenyl-phenylether	ND	802	648	81		340	42		40-140	62	Q	30
Hexachlorobenzene	ND	802	438	55		317	39	Q	40-140	32	Q	30
Atrazine	ND	802	465	58		338	42		40-140	32	Q	30
Pentachlorophenol	ND	802	197.J	25	Q	ND	0	Q	30-130	NC		30
Carbazole	188	802	908	90		847	81		40-140	7		30
Di-n-butylphthalate	ND	802	622	78		421	52		40-140	39	Q	30
Benzidine	ND	2000	ND	0	Q	ND	0	Q	10-72	NC		30
Butylbenzylphthalate	ND	802	549	69		363	45		40-140	41	Q	30
3,3'-Dichlorobenzidine	ND	802	279	35	Q	271	33	Q	40-140	3		30
bis(2-Ethylhexyl)phthalate	ND	802	632	79		416	51		40-140	41	Q	30
Di-n-octylphthalate	ND	802	543	68		374	46		40-140	37	Q	30

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
2,4,6-Tribromophenol	76		54		30-130
2-Fluorobiphenyl	55		37		30-130
2-Fluorophenol	27	Q	24	Q	30-130
Nitrobenzene-d5	44		33		30-130
Phenol-d5	37		28	Q	30-130
Terphenyl-d14	61		40		30-130

# PETROLEUM HYDROCARBONS

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 09/15/20 20:21  
 Analyst: WR  
 Percent Solids: 82%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/11/20 09:30  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Saturated Hydrocarbons by GC-FID - Mansfield Lab</b>						
n-Nonane (C9)	ND		mg/kg	0.844	0.250	1
n-Decane (C10)	ND		mg/kg	0.844	0.269	1
n-Undecane (C11)	ND		mg/kg	0.844	0.252	1
n-Dodecane (C12)	ND		mg/kg	0.844	0.184	1
n-Tridecane (C13)	ND		mg/kg	0.844	0.232	1
2,6,10-Trimethyldodecane (1380)	ND		mg/kg	0.844	0.127	1
n-Tetradecane (C14)	ND		mg/kg	0.844	0.127	1
2,6,10-Trimethyltridecane (1470)	ND		mg/kg	0.844	0.101	1
n-Pentadecane (C15)	ND		mg/kg	0.844	0.101	1
n-Hexadecane (C16)	ND		mg/kg	0.844	0.127	1
Norpristane (1650)	ND		mg/kg	0.844	0.278	1
n-Heptadecane (C17)	ND		mg/kg	0.844	0.278	1
Pristane	ND		mg/kg	0.844	0.180	1
n-Octadecane (C18)	0.531	J	mg/kg	0.844	0.169	1
Phytane	0.129	J	mg/kg	0.844	0.106	1
n-Nonadecane (C19)	ND		mg/kg	0.844	0.217	1
n-Eicosane (C20)	ND		mg/kg	0.844	0.119	1
n-Heneicosane (C21)	ND		mg/kg	0.844	0.101	1
n-Docosane (C22)	ND		mg/kg	0.844	0.088	1
n-Tricosane (C23)	0.170	J	mg/kg	0.844	0.107	1
n-Tetracosane (C24)	ND		mg/kg	0.844	0.141	1
n-Pentacosane (C25)	0.646	J	mg/kg	0.844	0.447	1
n-Hexacosane (C26)	0.138	J	mg/kg	0.844	0.124	1
n-Heptacosane (C27)	0.789	J	mg/kg	0.844	0.102	1
n-Octacosane (C28)	ND		mg/kg	0.844	0.181	1
n-Nonacosane (C29)	1.16		mg/kg	0.844	0.562	1
n-Triacontane (C30)	0.259	J	mg/kg	0.844	0.097	1
n-Hentriacontane (C31)	1.52		mg/kg	0.844	0.120	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-01  
 Client ID: REF1\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 10:45  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Saturated Hydrocarbons by GC-FID - Mansfield Lab</b>						
n-Dotriacontane (C32)	0.143	J	mg/kg	0.844	0.106	1
n-Tritriacontane (C33)	0.430	J	mg/kg	0.844	0.119	1
n-Tetatriacontane (C34)	ND		mg/kg	0.844	0.134	1
n-Pentatriacontane (C35)	0.318	J	mg/kg	0.844	0.147	1
n-Hexatriacontane (C36)	0.572	J	mg/kg	0.844	0.168	1
n-Heptatriacontane (C37)	ND		mg/kg	0.844	0.187	1
n-Octatriacontane (C38)	ND		mg/kg	0.844	0.197	1
n-Nonatriacontane (C39)	ND		mg/kg	0.844	0.274	1
n-Tetracontane (C40)	ND		mg/kg	0.844	0.274	1
Total Petroleum Hydrocarbons (C9-C44)	530		mg/kg	27.8	6.13	1
DRO (C10-C28)	142		mg/kg	17.7	3.65	1
Total Saturated Hydrocarbons	6.81	J	mg/kg	0.844	0.088	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	94		50-130
d50-Tetracosane	91		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8015D(M)  
 Analytical Date: 09/15/20 04:22  
 Analyst: WR  
 Percent Solids: 82%

Extraction Method: ALPHA OP-013  
 Extraction Date: 09/11/20 09:30  
 Cleanup Method: EPA 3611B  
 Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Saturated Hydrocarbons by GC-FID - Mansfield Lab</b>						
n-Nonane (C9)	ND		mg/kg	0.326	0.097	1
n-Decane (C10)	ND		mg/kg	0.326	0.104	1
n-Undecane (C11)	ND		mg/kg	0.326	0.097	1
n-Dodecane (C12)	ND		mg/kg	0.326	0.071	1
n-Tridecane (C13)	ND		mg/kg	0.326	0.089	1
2,6,10-Trimethyldodecane (1380)	0.093	J	mg/kg	0.326	0.049	1
n-Tetradecane (C14)	0.095	J	mg/kg	0.326	0.049	1
2,6,10-Trimethyltridecane (1470)	1.07		mg/kg	0.326	0.039	1
n-Pentadecane (C15)	0.137	J	mg/kg	0.326	0.039	1
n-Hexadecane (C16)	0.817		mg/kg	0.326	0.049	1
Norpristane (1650)	1.63		mg/kg	0.326	0.108	1
n-Heptadecane (C17)	0.338		mg/kg	0.326	0.108	1
Pristane	0.761		mg/kg	0.326	0.070	1
n-Octadecane (C18)	12.1	G	mg/kg	0.326	0.065	1
Phytane	4.94	G	mg/kg	0.326	0.041	1
n-Nonadecane (C19)	0.287	J	mg/kg	0.326	0.084	1
n-Eicosane (C20)	0.126	J	mg/kg	0.326	0.046	1
n-Heneicosane (C21)	ND		mg/kg	0.326	0.039	1
n-Docosane (C22)	0.222	J	mg/kg	0.326	0.034	1
n-Tricosane (C23)	1.16		mg/kg	0.326	0.041	1
n-Tetracosane (C24)	0.117	J	mg/kg	0.326	0.055	1
n-Pentacosane (C25)	7.57	G	mg/kg	0.326	0.172	1
n-Hexacosane (C26)	0.444		mg/kg	0.326	0.048	1
n-Heptacosane (C27)	0.493		mg/kg	0.326	0.039	1
n-Octacosane (C28)	0.296	J	mg/kg	0.326	0.070	1
n-Nonacosane (C29)	4.50	G	mg/kg	0.326	0.217	1
n-Triacontane (C30)	0.764		mg/kg	0.326	0.037	1
n-Hentriacontane (C31)	1.60		mg/kg	0.326	0.046	1

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

Lab ID: L2037437-02  
 Client ID: SW\_SE\_20200909  
 Sample Location: 400 E. BRAMLETTE RD., GREENVILLE, SC

Date Collected: 09/09/20 11:40  
 Date Received: 09/10/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Saturated Hydrocarbons by GC-FID - Mansfield Lab</b>						
n-Dotriacontane (C32)	0.321	J	mg/kg	0.326	0.041	1
n-Tritriacontane (C33)	0.273	J	mg/kg	0.326	0.046	1
n-Tetatriacontane (C34)	ND		mg/kg	0.326	0.052	1
n-Pentatriacontane (C35)	0.154	J	mg/kg	0.326	0.057	1
n-Hexatriacontane (C36)	ND		mg/kg	0.326	0.065	1
n-Heptatriacontane (C37)	0.357		mg/kg	0.326	0.072	1
n-Octatriacontane (C38)	ND		mg/kg	0.326	0.076	1
n-Nonatriacontane (C39)	ND		mg/kg	0.326	0.106	1
n-Tetracontane (C40)	ND		mg/kg	0.326	0.106	1
Total Petroleum Hydrocarbons (C9-C44)	663		mg/kg	10.8	2.37	1
DRO (C10-C28)	349		mg/kg	6.84	1.41	1
Total Saturated Hydrocarbons	40.7	J	mg/kg	0.326	0.034	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	93		50-130
d50-Tetracosane	97		50-130

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/14/20 18:13  
Analyst: WR

Extraction Method: ALPHA OP-013  
Extraction Date: 09/11/20 09:30  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG1408763-1					
n-Nonane (C9)	ND		mg/kg	0.067	0.020
n-Decane (C10)	ND		mg/kg	0.067	0.021
n-Undecane (C11)	ND		mg/kg	0.067	0.020
n-Dodecane (C12)	ND		mg/kg	0.067	0.015
n-Tridecane (C13)	ND		mg/kg	0.067	0.018
2,6,10-Trimethyldodecane (1380)	ND		mg/kg	0.067	0.010
n-Tetradecane (C14)	ND		mg/kg	0.067	0.010
2,6,10-Trimethyltridecane (1470)	ND		mg/kg	0.067	0.008
n-Pentadecane (C15)	ND		mg/kg	0.067	0.008
n-Hexadecane (C16)	ND		mg/kg	0.067	0.010
Norpristane (1650)	ND		mg/kg	0.067	0.022
n-Heptadecane (C17)	ND		mg/kg	0.067	0.022
Pristane	ND		mg/kg	0.067	0.014
n-Octadecane (C18)	0.027	JC	mg/kg	0.067	0.013
Phytane	ND		mg/kg	0.067	0.008
n-Nonadecane (C19)	ND		mg/kg	0.067	0.017
n-Eicosane (C20)	ND		mg/kg	0.067	0.009
n-Heneicosane (C21)	ND		mg/kg	0.067	0.008
n-Docosane (C22)	ND		mg/kg	0.067	0.007
n-Tricosane (C23)	0.010	J	mg/kg	0.067	0.008
n-Tetracosane (C24)	ND		mg/kg	0.067	0.011
n-Pentacosane (C25)	ND		mg/kg	0.067	0.035
n-Hexacosane (C26)	ND		mg/kg	0.067	0.010
n-Heptacosane (C27)	ND		mg/kg	0.067	0.008
n-Octacosane (C28)	ND		mg/kg	0.067	0.014
n-Nonacosane (C29)	ND		mg/kg	0.067	0.044
n-Triacontane (C30)	ND		mg/kg	0.067	0.008
n-Hentriacontane (C31)	ND		mg/kg	0.067	0.009
n-Dotriacontane (C32)	ND		mg/kg	0.067	0.008



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D-SIM(M)  
Analytical Date: 09/14/20 18:13  
Analyst: WR

Extraction Method: ALPHA OP-013  
Extraction Date: 09/11/20 09:30  
Cleanup Method: EPA 3611B  
Cleanup Date: 09/14/20

Parameter	Result	Qualifier	Units	RL	MDL
Saturated Hydrocarbons by GC-FID - Mansfield Lab for sample(s): 01-02 Batch: WG1408763-1					
n-Tritriacontane (C33)	ND		mg/kg	0.067	0.009
n-Tetratriacontane (C34)	ND		mg/kg	0.067	0.011
n-Pentatriacontane (C35)	ND		mg/kg	0.067	0.012
n-Hexatriacontane (C36)	ND		mg/kg	0.067	0.013
n-Heptatriacontane (C37)	ND		mg/kg	0.067	0.015
n-Octatriacontane (C38)	ND		mg/kg	0.067	0.016
n-Nonatriacontane (C39)	ND		mg/kg	0.067	0.022
n-Tetracontane (C40)	ND		mg/kg	0.067	0.022
Total Petroleum Hydrocarbons (C9-C44)	ND		mg/kg	2.20	0.484
DRO (C10-C28)	0.496	J	mg/kg	1.40	0.288
Total Saturated Hydrocarbons	0.037	J	mg/kg	0.067	0.007

Surrogate	%Recovery	Qualifier	Acceptance Criteria
ortho-terphenyl	92		50-130
d50-Tetracosane	90		50-130

## Lab Control Sample Analysis Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab Associated sample(s): 01-02 Batch: WG1408763-2 WG1408763-3								
Nonane (C9)	58		58		50-130	0		30
n-Decane (C10)	69		68		50-130	1		30
n-Dodecane (C12)	75		75		50-130	0		30
n-Tetradecane (C14)	79		78		50-130	1		30
n-Hexadecane (C16)	89		88		50-130	1		30
n-Octadecane (C18)	94		94		50-130	0		30
n-Nonadecane (C19)	88		88		50-130	0		30
n-Eicosane (C20)	90		90		50-130	0		30
n-Docosane (C22)	92		92		50-130	0		30
n-Tetracosane (C24)	92		95		50-130	3		30
n-Hexacosane (C26)	93		93		50-130	0		30
n-Octacosane (C28)	91		91		50-130	0		30
n-Triacontane (C30)	94		94		50-130	0		30
n-Hexatriacontane (C36)	85		86		50-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
ortho-terphenyl	98		96		50-130
d50-Tetracosane	96		94		50-130



### Matrix Spike Analysis Batch Quality Control

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Saturated Hydrocarbons by GC-FID - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1408763-4 WG1408763-5 QC Sample: L2037437-02 Client ID: SW_SE_20200909												
n-Nonane (C9)	ND	7.69	3.36	44	Q	3.55	44	Q	50-150	5		30
n-Decane (C10)	ND	7.69	4.24	55		4.56	57		50-150	7		30
n-Dodecane (C12)	ND	7.69	5.05	66		5.53	69		50-150	9		30
n-Tetradecane (C14)	0.095J	7.69	5.97	78		6.28	79		50-150	5		30
n-Hexadecane (C16)	0.817	7.69	7.13	82		8.25	93		50-150	15		30
n-Octadecane (C18)	12.1G	7.69	14.4G	30	Q	32.2G	251	Q	50-150	76	Q	30
n-Nonadecane (C19)	0.287J	7.69	6.92	90		7.24	91		50-150	5		30
n-Eicosane (C20)	0.126J	7.69	7.05	92		7.28	91		50-150	3		30
n-Docosane (C22)	0.222J	7.69	7.09	92		7.52	94		50-150	6		30
n-Tetracosane (C24)	0.117J	7.69	7.05	92		7.45	93		50-150	6		30
n-Hexacosane (C26)	0.444	7.69	7.15	87		7.53	89		50-150	5		30
n-Octacosane (C28)	0.296J	7.69	7.22	94		7.31	91		50-150	1		30
n-Triacontane (C30)	0.764	7.69	7.68	90		8.64	99		50-150	12		30
n-Hexatriacontane (C36)	ND	7.69	6.49	84		6.52	82		50-150	0		30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
d50-Tetracosane	97		98		50-130
ortho-terphenyl	94		90		50-130



# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

**Lab ID:** L2037437-01  
**Client ID:** REF1\_SE\_20200909  
**Sample Location:** 400 E. BRAMLETTE RD., GREENVILLE, SC

**Date Collected:** 09/09/20 10:45  
**Date Received:** 09/10/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	81.7		%	0.100	0.100	1	-	09/15/20 13:26	121,2540G	JW



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**SAMPLE RESULTS**

**Lab ID:** L2037437-02  
**Client ID:** SW\_SE\_20200909  
**Sample Location:** 400 E. BRAMLETTE RD., GREENVILLE, SC

**Date Collected:** 09/09/20 11:40  
**Date Received:** 09/10/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	81.6		%	0.100	0.100	1	-	09/15/20 13:26	121,2540G	JW



**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** FORMER BRAMLETTE MGP SITE**Project Number:** MGPBRAM**Lab Number:** L2037437**Report Date:** 09/30/20

<b>Parameter</b>	<b>Native Sample</b>	<b>Duplicate Sample</b>	<b>Units</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
General Chemistry - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1410078-1 QC Sample: L2034518-17 Client ID: DUP Sample						
Solids, Total	78.1	78.2	%	0		10

**Project Name:** FORMER BRAMLETTE MGP SITE**Lab Number:** L2037437**Project Number:** MGPBRAM**Report Date:** 09/30/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2037437-01A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14)
L2037437-01A1	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14)
L2037437-01B	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-01B1	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-01C	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-01C1	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14),A2-PIANO8260L(14)
L2037437-01D	Vial MeOH preserved	A	NA		2.5	Y	Absent		A2-PIANO8260L(14)
L2037437-01D1	Vial MeOH preserved	A	NA		2.5	Y	Absent		A2-PIANO8260L(14)
L2037437-01E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-01F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-01G	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-01H	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-01I	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-01J	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02A	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14)
L2037437-02A1	Vial MeOH preserved	A	NA		2.5	Y	Absent		8260HLW(14)
L2037437-02B	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-02B1	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-02C	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14)
L2037437-02C1	Vial water preserved	A	NA		2.5	Y	Absent	10-SEP-20 18:16	8260HLW(14),A2-PIANO8260L(14)
L2037437-02D	Vial MeOH preserved	A	NA		2.5	Y	Absent		A2-PIANO8260L(14)



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Serial\_No:**09302016:43  
**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2037437-02D1	Vial MeOH preserved	A	NA		2.5	Y	Absent		A2-PIANO8260L(14)
L2037437-02E	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02F	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02G	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02H	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02I	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)
L2037437-02J	Glass 120ml/4oz unpreserved	A	NA		2.5	Y	Absent		A2-SHC(14),A2-SVOC-8270(14),A2-ALKPAH(14),A2-TS(7)

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** FORMER BRAMLETTE MGP SITE  
**Project Number:** MGPBRAM

**Lab Number:** L2037437  
**Report Date:** 09/30/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

**EPA 522.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1** Hg.

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.





# MANSFIELD CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA  
TEL 508-898-9220  
FAX 508-898-9193

MANSFIELD, MA  
TEL 508-822-9300  
FAX 508-822-3288

## Project Information

Project Name: *Bramlette MGP*  
Project Location: *Greenville, SC*  
Project #:  
Project Manager: *Todd Plating*  
ALPHA Quote #:

## Turn-Around Time

Standard  **BRUSH** (only confirmed if pre-approved!)

Date Due: *5 day tat* Time:

Date Rec'd in Lab: *9/10/20*

ALPHA Job #: *L2037437*

## Report Information - Data Deliverables

FAX  EMAIL  
 ADEx  Add'l Deliverables

## Billing Information

Same as Client info PO #:

## Client Information

Client: *SynTerra*  
Address: *148 River St. Suite 220*

Phone: *864-421-9999*

Fax:

Email:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

## PLEASE NOTE

MS/MSD (at unit cost) will be omitted unless you check here:

## Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS										SAMPLE HANDLING		TOTAL # BOTTLES	
<i>8260</i>	<i>8270</i>	<i>8260B/5035</i>	<i>8015D-mat: Dial</i>	<i>8270D-SEM</i>									

### SAMPLE HANDLING

Filtration \_\_\_\_\_  
 Done  
 Not needed  
 Lab to do  
 Lab to do  
*Preservation*  
 Lab to do  
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments					
		Date	Time																		
<i>37437-01</i>	<i>REF1-SE-20200909</i>	<i>9/9/20</i>	<i>1045</i>	<i>SED</i>	<i>TCR</i>	<i>5</i>	<i>2</i>	<i>5</i>	<i>2</i>	<i>2</i>											
<i>-02</i>	<i>SW-SE-20200909</i>	<i>9/9/20</i>	<i>1140</i>	<i>SED</i>	<i>TCR</i>	<i>5</i>	<i>2</i>	<i>5</i>	<i>2</i>	<i>2</i>											

Container Type

Preservative

Relinquished By:

*[Signature]*  
*UPS*

Date/Time

*9/9/20 1140*

Received By:

*[Signature]*  
*UPS*  
*Kimberly - AAL*

Date/Time

*9/10/20 10.02*

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

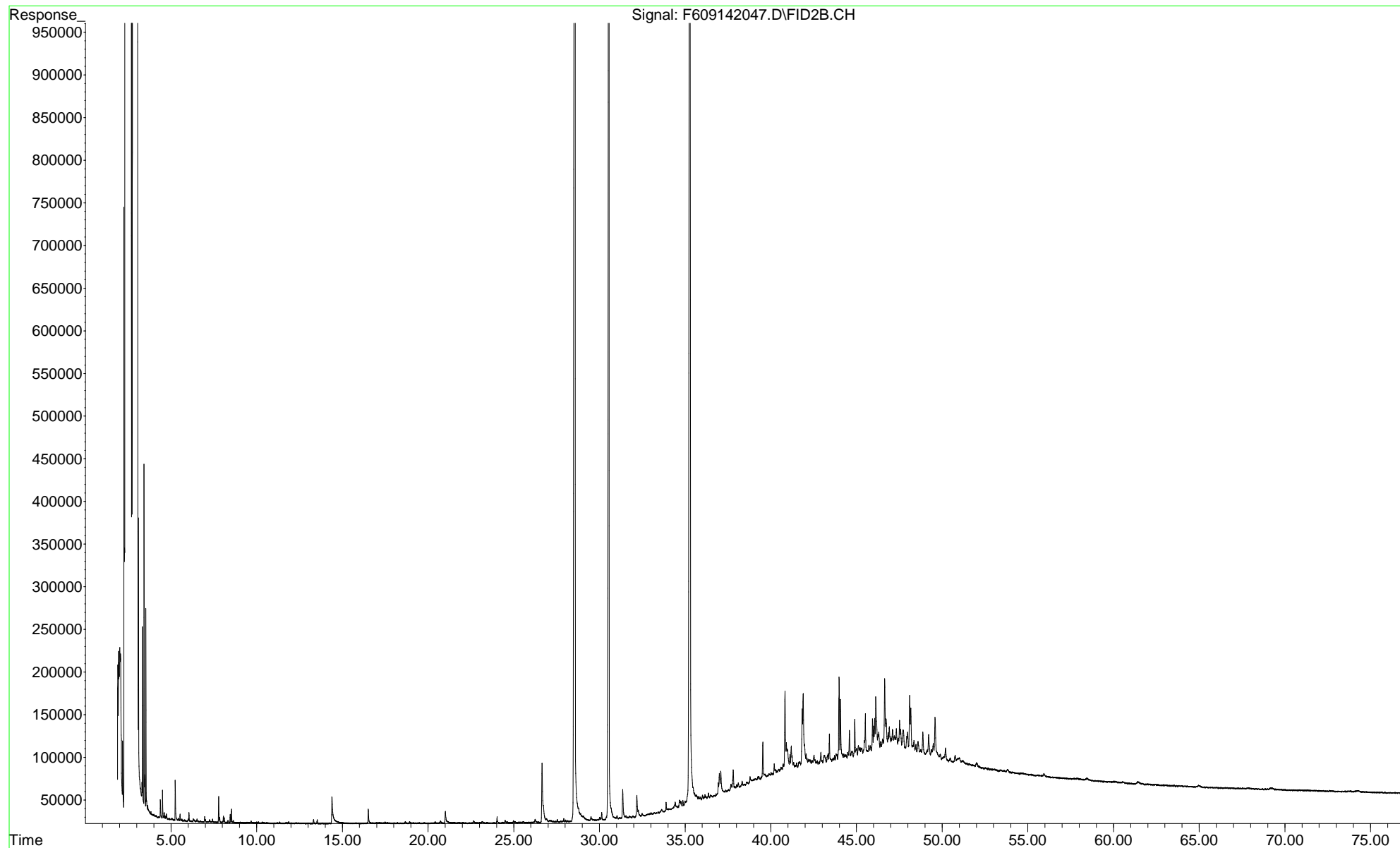
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<p><b>SHIP TO:</b> MANSFIELD LABORATORY 320 FORBES BOULEVARD <b>MANSFIELD MA 02048</b></p>	<p><b>UPS NEXT DAY AIR</b>      <b>1</b> TRACKING #: 1Z 367 6EW 01 6303 5589</p>	
<p>REF 1:00.0114.01</p>		
		<p>BILLING: P/P</p>

WS 23.0.8 Adobe PDF Con 31.04.07/2025

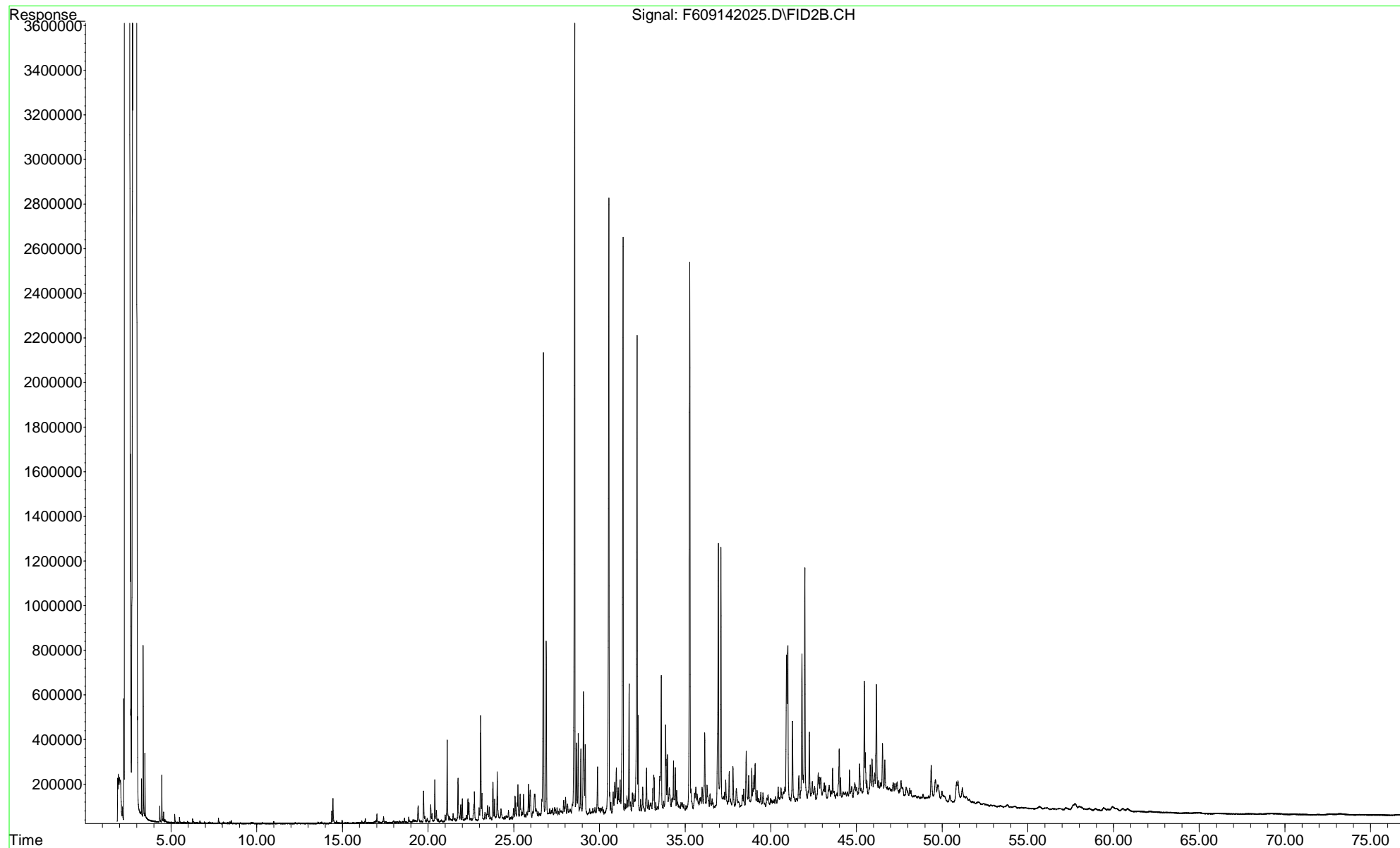
Fold here and place in label pouch



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Acquired : 15 Sep 2020 8:21 pm using AcqMethod FID6A.M  
Instrument : FID6  
Sample Name: L2037437-01  
Misc Info : WG1410001,WG1408763,ICAL16434  
Vial Number: 74



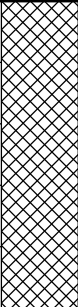

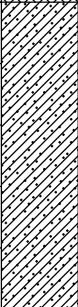
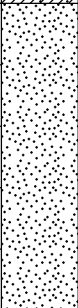
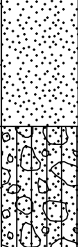
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Operator : FID6:WR  
Acquired : 15 Sep 2020 4:22 am using AcqMethod FID6A.M  
Instrument : FID6  
Sample Name: L2037437-02  
Misc Info : WG1410001,WG1408763,ICAL16434  
Vial Number: 63



**ATTACHMENT B**

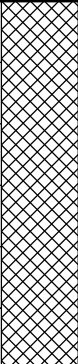
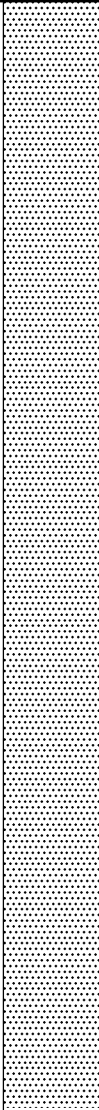

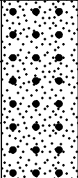

**BORING LOGS AND  
DHEC 1903 FORMS**

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-01</b>
PROJECT NO: 1026.800	STARTED: 8/28/20 COMPLETED: 8/28/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 19.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
0 - 5			FILL; SAND, silty, light brown to black, trace organics, moist at approximately 4' bls, cohesive, no visible impact.		2.0		0	
5 - 10			CLAY; Sandy, light brown from 5'-6.5' bls and blue gray from 6.5'-10' bls, wet, low plasticity, wood debris (roots) no visible impact.		2.0		0	
10 - 15			SAND; Gray, medium to coarse, well sorted, wet, micaceous, non-cohesive, trace gravel above saprolite zone ( 16'-17' bgs), no visible impact.		0.5		0	
15 - 19			SAPROLITE; Purple with white banding, moist, relict structure, no visible impact.		4.0		0	
19 - 20			Bottom of Boring @ 19' below ground surface. Backfilled with cemet grout to ground surface.					

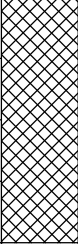
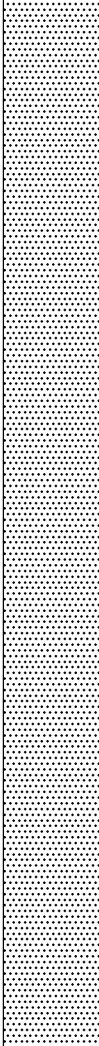
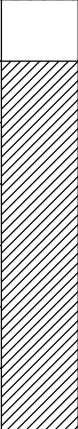
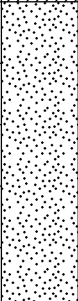


LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-02</b>
PROJECT NO: 1026.800	STARTED: 8/28/20 COMPLETED: 8/28/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 18.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
5			FILL; SAND, silty, red orange, dry from 0'-3' bls, wet from 3'-5' bls, trace organics. 1" of clinker at base of fill.		3.0		0	
10			CLAY; Blue gray, lean, moist, high plasticity. From approximately 10'-12' bls orange mottling, micaceous from 12'-14' bgs, no visible impact.		4.0		0	
15			ALLUVIUM; SAND, gravelly, gray, well sorted, moist, no visible impact.		3.0		0	
			SAPROLITE; Gray purple banding, foliated, relict structure.					
20			Bottom of Boring @ 18' below ground surface. Backfilled with cemet grout to ground surface.					

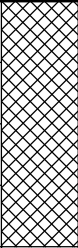
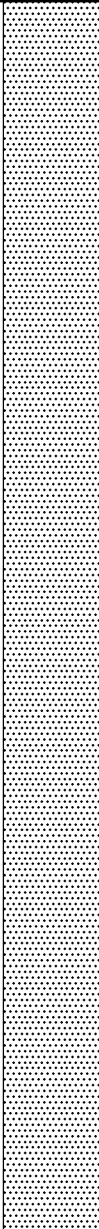
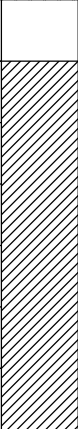
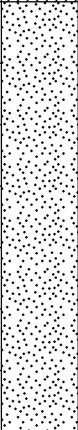
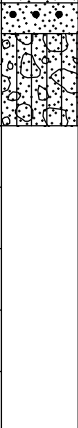

LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-03</b>
PROJECT NO: 1026.800	STARTED: 8/28/20 COMPLETED: 8/28/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 17.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; SAND, silty, red orange to brown, dry, no visible impact.		4.0		0	
5			CLINKER; SLAG, black, gravel sized, wet, non-cohesive.		3.0		0	
10			CLAY; Blue gray, lean, moist, high plasticity, 5'-6' bls surface brown mottling, no visible impact.		4.5		0	
15			SAND; Gray, coarse grained, wet, non-cohesive, well sorted, trace silt, micaceous, no visible impact.					
			SAPROLITE; Black and white, moist, foliated, relict structure (gneissic), no odor, no visible impact.					
20			Bottom of Boring @ 17' below ground surface. Backfilled with cemet grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-04</b>
PROJECT NO: 1026.800	STARTED: 8/28/20 COMPLETED: 8/28/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; SAND, silty, light brown, dry, trace organics, no visible impact.				0	
5			CLINKER; Black, wet, gravel, slag and clinkers, no visible impact.				0	
10			CLAY; Blue gray, brown mottling from 5'-6' bls, lean, moist, high plasticity, micaceous, no visible impact.				0	
15			SAND; Gray, medium to coarse grained, wet, well sorted, micaceous, trace gravel at approximately 15' bls, no visible impact.				0	
20			ALLUVIUM; SAND, gravelly, gray, coarse, wet. SAPROLITE; Black and white foliation, moist, relict structure.					
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-05</b>
PROJECT NO: 1026.800	STARTED: 8/22/20 COMPLETED: 8/22/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Gravelly, black.					
5			FILL; SAND, silty, orange to black, wet, non-cohesive.				0	
10			CLAY; Sandy, blue gray, moist, high plasticity, micaceous, hydrocarbon odor, no visible impact.				7	
15			SAND; Clayey, blue gray, moist, low plasticity, pooled NAPL, heavy sheen, weathered NAPL blobs, 1" zone of alluvium (gravelly sand), hydrocarbon odor.				41.2 35.7	
20			SAPROLITE; Gray and white, moist, strong hydrocarbon odor, relict structure (schistose), no visible impact.				21.4	
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

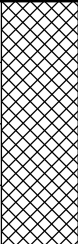
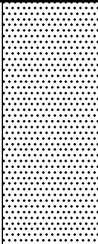


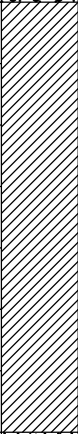
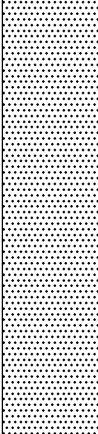


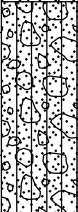
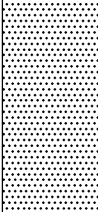


PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-07</b>
PROJECT NO: 1026.800	STARTED: 8/22/20 COMPLETED: 8/22/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
0			SAND; Silty, orange to black, saturated, trace gravel and trace asphalt pieces, no odors, well sorted increased with depth, no visible impact.				0	
7.5			CLAY; Lean, blue gray, orange mottling from 7'-8' bls, moist, high plasticity, no odor, no visible impact.				0	
10			SAND; Brown to dark gray, fine grained, trace silt, no odors, no visible impact.				0	
12.5			CLAY; Sandy, blue gray, medium plasticity, slight hydrocarbon odor, no visible impact.				0.5	
15			ALLUVIUM; SAND, gray, coarse grained, wet, well sorted, slight hydrocarbon odor.				1.2	
17.5			SAND; Gravelly, gray, wet, well sorted, strong hydrocarbon odor, from approximately 17'-18' bls pooled NAPL, deep red color.				16.5	
18.5			SAPROLITE; Gray to purple, wet, schistose silty sand, strong hydrocarbon odor, no visible impact.				338	
20			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.				7.7	

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-08</b>
PROJECT NO: 1026.800	STARTED: 8/22/20 COMPLETED: 8/22/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; SAND, silty, orange to black, moist, low plasticity, no odors, no visible impact.				0	
5			SAND; Gravelly, black, wet, non-cohesive, slag and C&D debris, no odors, no visible impact.				0	
10			CLAY; Lean, blue gray, moist, high plasticity, wood debris in sections (roots), no odors, no visible impact.				0	
15			SAND; Clayey, gray, wet, non-cohesive, micaceous, no odors, 1" alluvium at the bottom of run (gravelly sand), no visible impact.				0	
20			SAPROLITE; White gray to purple, moist, relict structure, no odors, no visible impact.				0	
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-09</b>
PROJECT NO: 1026.800	STARTED: 8/22/20 COMPLETED: 8/22/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; SAND, silty, orange to dark brown, moist, non-cohesive, no visible impact.		3.0		0	
5			GRAVEL Sandy, black, wet, trace slag and coal, no hydrocarbon odor.				0	
			CLAY; Silty, lean, blue gray from 7'-13' bls, orange mottling from 6'-7' bls, wet, micaceous, no odors, no visible impact.		4.0		0	
			CLAY; Sandy, gray, wet, micaceous, no odors, no visible impact.		5.0		0	
15			SAND; Gray, wet, poorly sorted, trace silt, no odor, no visible impact.				0	
			SAPROLITE; Gray and white to purple, moist, sand silt, relict structure (schistose), no odor, no visible impact.		5.0		0	
20			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					





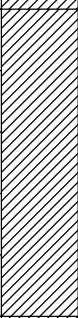

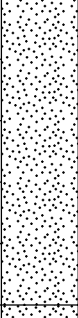
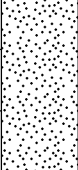

LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-10</b>
PROJECT NO: 1026.800	STARTED: 8/29/20 COMPLETED: 8/29/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; CLAY, reddish brown, lean, dry.					
5			SAND; Gravelly, gray, dry, poorly sorted, no visible impact.				0	
			CLINKER/SLAG; Black, coarse grained, moist, fibrous, hydrocarbon odor.				9	
10			CLAY; Lean, gray, moist, high plasticity.				0	
			SAND; Black, coarse grained, wet, fibrous, strong odor.				1	
			CLAY; Lean, gray, moist, high plasticity.					
15			SAND; Gray, medium to coarse, wet, well sorted, micaceous.					
			SAND; Gray, medium to coarse, wet, fining upward, quartz inclusions, minor odor, no visible impact.				0	
20			SAPROLITE; Gray, white with black mottling, moist.					
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-11</b>
PROJECT NO: 1026.800	STARTED: 8/29/20 COMPLETED: 8/29/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; CLAY, silty, grayish red brown.					
			CLINKER; Gravel sized, organics.					
			FILL; CLAY, silty, reddish brown.		4.8		0	
			GRAVEL; Sandy, coarse					
5			CLAY; Lean, gray, dry, high plasticity, no visible impact.					
			CLAY; Lean, reddish gray, wet, high plasticity, no visible impact.		3.0		0	
10			CLAY; Lean, gray, moist, high plasticity.					
			SAND; Gray, medium coarse, wet, well sorted, micaceous, no odor, no visible impact.		4.0		0	
15			SAND; Gray, med coarse, wet, well sorted, some gravel, no odor, no visible impact.		4.8		0	
20			SAPROLITE; SAND, silty, white gray brown, fine to medium grained, foliated, relict structure.					
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

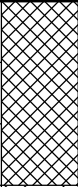
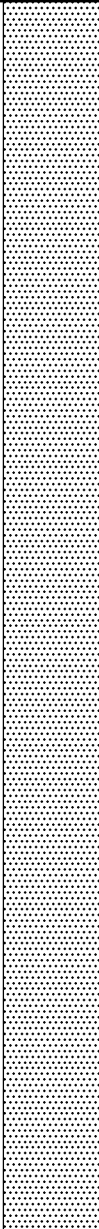
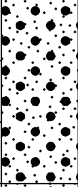

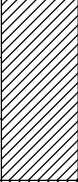
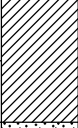
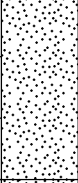
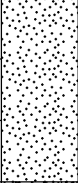

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-12</b>
PROJECT NO: 1026.800	STARTED: 8/29/20 COMPLETED: 8/29/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; CLAY, silty, reddish brown, dry, no visible impact.		3.0		0	WELL CONSTRUCTION
5			SAND; Gray, coarse, dry, gravel inclusions, no odor, no visible impact.					
			CLAY; Lean, dark gray, reddish brown from 11'-12' bls, moist, high plasticity, no odor, no visible impact.		2.5		0	
10			NO RECOVERY		0.0			
			SAND; Gray, medium coarse, wet, poorly sorted, some gravel inclusions, no odor, no visible impact.		5.0		0	
20			SAPROLITE; White black, fine to very fine silty sand, relict structure, no odor, no visible impact.					
			Bottom of Boring @ 20' below ground surface. Backfilled with cemet grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-13</b>
PROJECT NO: 1026.800	STARTED: 8/29/20 COMPLETED: 8/29/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			FILL; CLAY; silty, gray reddish brown, clinker inclusions at approximately 1.5' bls.		4.0		0	
5			GRAVEL; Sandy, gray, wet, non-cohesive, poorly graded.					
			GRAVEL; Sandy, gray, wet, non-cohesive, poorly graded.					
			CLAY; Lean, gray, moist, high plasticity, no visible impact.		2.0		0	
10			CLAY; Lean, gray, moist, high plasticity, no odor, no visible impact.					
			SAND; Gray, medium coarse, wet, non-cohesive, well sorted, no visible impact.		3.0		0	
15			SAND; Gray, medium coarse, wet, non-cohesive, poorly sorted, abundant gravel, no visible impact.		5.0		0	
20			SAPROLITE; Fine to medium grained, moist, silty, no odor.					
			Bottom of Boring @ 20' below ground surface. Backfilled with cement grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20



PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>LC-SB-14</b>
PROJECT NO: 1026.800	STARTED: 8/29/20 COMPLETED: 8/29/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 20.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ASPHALT					
			FILL; SAND, silty, reddish brown, dry up to 4' bls, crush and run (gravel) from approximately 2.5'-3.75' bls, clinker inclusions at approximately 3.75' bls.		4.0		0	
5			CLAY; Black to dark brown, wet, high plasticity, uniform, loose organic material at bottom of run (9'-10' bls), no visible impact.		3.0		0	
10			SAND; Gray, saturated, well sorted, micaceous, no visible impact.		3.0		0	
15			SAND; Clayey, blue gray, micaceous and gravelly, pooled NAPL, heavy sheen, weathered NAPL blobs from approximately 15'-17' bls, strong odor.					
			SAPROLITE; Gray and white, layered, relict structure, strong odor.		4.8		0	
20			Bottom of Boring @ 20' below ground surface. Backfilled with cement grout to ground surface.					

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

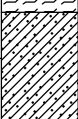

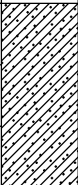




PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-13</b>
PROJECT NO: 1026.800	STARTED: 6/30/20 COMPLETED: 6/30/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 15.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
2.5			ORGANICS; Silty clay, brown, roots, wet.					
104								
135								
5			CLAY; Gray orange mottled, pooled NAPL, strong HC odor, sheen from approximately 4'-5' bgs, tar blebs.					
10			SAND; Clayey, gray, micaceous, NAPL coated grains interlayered, saturated with NAPL at approximately 12' bgs, strong hydrocarbon odor.					
15			ALLUVIUM; SAND, gravelly, gray, well rounded, approximately 1" zone of saturated NAPL on top of saprolite, strong hydrocarbon odor.					
			SAPROLITE; SAND, silty, gray, dry, relic structure, hydrocarbon odor.					
			Bottom of Boring @ 15' below ground surface. Backfilled with bentonite chips to ground surface.					
20								

LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-14</b>
PROJECT NO: 1026.800	STARTED: 6/30/20 COMPLETED: 6/30/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 15.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown, roots. CLAY; Sandy, tar, black, organics (roots), strong odor, sheen.				54	
5			CLAY; Gray, orange mottling, organics, tar blebs, hydrocarbon odor, sheen.				81.6	
			NO RECOVERY					
10			CLAY; Sandy, gray, orange mottling, micaceous, NAPL coated grains, some odor.				5.6	
			ALLUVIUM; SAND, gravelly, well rounded, saturated NAPL, strong hydrocarbon odor.				18.0	
15			SAPROLITE; SAND, silty, yellow orange to gray, foliated, relic structure, hydrocarbon odor.				103	
			Bottom of Boring @ 15' below ground surface. Backfilled with bentonite chips to ground surface				34	

LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20



PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-16</b>
PROJECT NO: 1026.800	STARTED: 6/30/20 COMPLETED: 6/30/20
DRILLING COMPANY: Geologic Exploration	NORTHING: EASTING:
DRILLING METHOD: GeoProbe 6620	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 2 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 15.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown. CLAY; Interlayered tar, black, strong hydrocarbon odor.				13.5	
			ORGANICS; Wood debris.				49.8	
5			CLAY; Sandy, red gray with orange mottling, NAPL coated grains, strong hydrocarbon odor.				79.9	
							135	
							460	
10			SAND; Clayey, grey, micaceous, stringers of pooled NAPL throughout.				63.8	
							532	
15			ALLUVIUM; SAND, gravelly, gray, well rounded, saturated with NAPL. SAPROLITE; Purple gray banding, relict structure, seeped NAPL in top 2 inches, remainder of run unimpacted.					
			Bottom of Boring @ 15' below ground surface. Backfilled with bentonite chips to ground surface.					



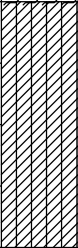
LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4 ASTM LAB.GDT 9/22/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-17</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; CLAY, silty, wet, slight hydrocarbon odor, no visible impact.				3.5	
			CLAY; Sandy, wet, micaceous, slight hydrocarbon odor, no visible impact.			1.0		
			CLAY; Silty, blue gray, wet, no odor, no visible impact.			0.6		
5			CLAY; Silty, blue gray, wet, no odor, no visible impact.			0.5		
			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.					
10								
15								
20								







LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-17-S1</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown tan, wets, roots, no odors, no visible impact.				0	
			CLAY; Silty, gray blue, wet, slight hydrocarbon odor at 3' bgs.				0 0.3 0 0	
5			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.					
10								
15								
20								




LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-17-S2</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 4.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Gray brown, wet, roots, slight hydrocarbon odor.				0.2	
			CLAY; Sandy, gray to tan, micaceous, wet, slight hydrocarbon odor.				0.2	
			CLAY; Silty, gray blue, wet, slight hydrocarbon odor.				0.2	
5			CLAY; Lean, stiff, blue gray, tar blobs at 4' bgs, sheen present, strong hydrocarbon odor. Bottom of Boring @ 4' below ground surface. Backfilled with native material to ground surface.				1.5	
10								
15								
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LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-18</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 0.5 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown, wet, 3" of tar form 2"-6" bgs, strong hydrocarbon odor, viscous. Bottom of Boring @ 0.5' below ground surface. Backfilled with native material to ground surface.				55.7	
5								
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LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20



PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-18-S1</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 4.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown to tan, wet, rooty.				0	
			CLAY; Silty, blue gray with orange mottling, tar blebs in clay, weather NAPL coated, strong hydrocarbon odor.				74.7	
5			Bottom of Boring @ 4' below ground surface. Backfilled with native material to ground surface.					
10								
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LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-18-S2</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown to gray, wet, roots, no odor, no visible impact.				0	
			CLAY; Sandy, orange to brown, wet, no odor, no visible impact.			0		
			CLAY; Lean, blue gray, wet, no odor, no visible impact.			0		
5			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.			0		
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LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-19</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown, wet, rooty, no odor, no visible impact.				0	
			GRAVEL; Wet, brick debris.				0	
			CLAY; Sandy, gray, wet, micaceous, no odor, no visible impact.				0	
5							0	
							0	
			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.					
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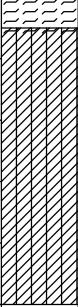

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-19-S1</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 3.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
	[Hatched Pattern]		ORGANICS; Rooty, TLM noted at 2.5'-3' bgs, strong hydrocarbon odor.				0	
5			Bottom of Boring @ 3' below ground surface. Backfilled with native material to ground surface.				0	
10								
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LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-20</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown, wet, rooty, no odor, no visible impact.				0	
			CLAY; Silty, brown to blue gray, wet, no odor, no visible impact.				0	
5			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.					
10								
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LOG.D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-21</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 4.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANIC; Brown, roots, leaves.				0.6	
			CLAY; Sandy, gray with orange mottling, wet, no odors, no visible impact.				0	
5			Bottom of Boring @ 4' below ground surface. Backfilled with native material to ground surface.					
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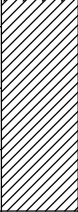
LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-21-S1</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS; Brown, wet, roots, leaves, no odor, no visible impact.				0	
			CLAY; Silty, stiff, blue gray, orange mottling, wet, no odor, no visible impact.				0	
5			Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.				0	
10								
15								
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LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20





PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-21-S2</b>
PROJECT NO: 1026.800	STARTED: 8/19/20 COMPLETED: 8/19/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 4.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS				0	
			CLAY; Blue gray, orange mottling, wet, no odor, no visible impact.					
5			Bottom of Boring @ 4' below ground surface. Backfilled with native material to ground surface.					
10								
15								
20								

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20



PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-22</b>
PROJECT NO: 1026.800	STARTED: 8/21/20 COMPLETED: 8/21/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 4.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS					
			CLAY; Gray with dark gray mottling, tar blebs and pooled NAPL from 3'-4' bgs.					
5			Bottom of Boring @ 4' below ground surface. Backfilled with native material to ground surface.					
10								
15								
20								

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20

PROJECT: Former Bramlette Road MGP Site	WELL / BORING NO: <b>RI-SB-23</b>
PROJECT NO: 1026.800	STARTED: 8/21/20 COMPLETED: 8/21/20
DRILLING COMPANY: SynTerra	NORTHING: EASTING:
DRILLING METHOD: Hand Auger	G.S. ELEV: ft MSL M.P. ELEV: ft MSL
BOREHOLE DIAMETER: 3 IN	DEPTH TO WATER: ft TOC TOTAL DEPTH: 5.0 ft BGS
NOTES:	LOGGED BY: T. King CHECKED BY: T. King

DEPTH (ft)	GRAPHIC LOG	USCS	DESCRIPTION	SAMPLE	RECOV. (FT)	VISUAL IMPACTS	PID (ppm)	WELL CONSTRUCTION
			ORGANICS				0	
			CLAY; Blue gray.				0	
			CLAY; Dark gray, slight hydrocarbon odor, no visible impact.					
5			CLAY; Dark gray, trace organics (black) with TLM, strong hydrocarbon odor. Bottom of Boring @ 5' below ground surface. Backfilled with native material to ground surface.				1.2	
10								
15								
20								

LOG D - VI DEC BRAMLETTE NAPL V2.GPJ GINT STD A4.ASTM LAB.GDT 10/26/20



























