

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-18  
Sample ID: 192481001  
Matrix: Ground Water  
Collect Date: 24-AUG-07 11:15  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-304	556	700	pCi/L		BXF1 08/28/07	1731	664566	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/28/07	2146	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	J	0.254		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Sample ID: 192481001

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	57.6 ug/L	60.0	96	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	61.4 ug/L	60.0	102	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	57.1 ug/L	60.0	95	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.8 ug/L	60.0	101	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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Project: DHEC00105  
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Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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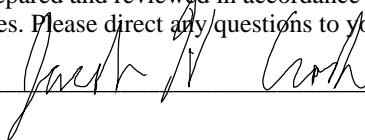
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



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Client Sample ID: 082407-19  
Sample ID: 192481002  
Matrix: Ground Water  
Collect Date: 24-AUG-07 11:50  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Rad Gamma Spec Analysis</b>											
<i>Gammascpec, Gamma, Liquid (Standard List)</i>											
<b>Rad Gas Flow Proportional Counting</b>											
<i>GFPC, Gross Alpha/Beta, liquid</i>											
<b>Rad Liquid Scintillation Analysis</b>											
<i>LSC, Tritium Dist, Liquid</i>											
Tritium	U	ND	+/-321	557	700	pCi/L		BXF1 08/28/07	1748	664566	3
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/28/07	2215	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Sample ID: 192481002

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
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Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	58.1 ug/L	60.0	97	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	61.2 ug/L	60.0	102	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	58.9 ug/L	60.0	98	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.1 ug/L	60.0	100	(77%-122%)

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Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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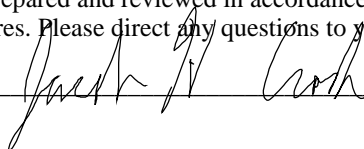
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
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E Organics--Concentration of the target analyte exceeds the instrument calibration range  
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Client Sample ID: 082407-20  
Sample ID: 192481003  
Matrix: Ground Water  
Collect Date: 24-AUG-07 12:10  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-316	544	700	pCi/L		BXF1 08/28/07 1804	664566	3	
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/28/07 2243	664728	4	
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
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Bromoform	U	ND		0.250	1.00	ug/L	1				
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Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
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Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
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Methylene chloride	U	ND		2.00	5.00	ug/L	1				
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Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
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Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
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Bromofluorobenzene	GEL 8260B Method List Liquid	61.0 ug/L	60.0	102	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	59.0 ug/L	60.0	98	(78%-124%)
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Sample ID: 192481003

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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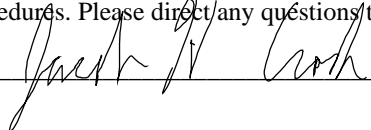
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- R Sample results are rejected
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- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



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# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-21  
Sample ID: 192481004  
Matrix: Ground Water  
Collect Date: 24-AUG-07 12:35  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Rad Gamma Spec Analysis</b>											
<i>Gammascpec, Gamma, Liquid (Standard List)</i>											
<b>Rad Gas Flow Proportional Counting</b>											
<i>GFPC, Gross Alpha/Beta, liquid</i>											
<b>Rad Liquid Scintillation Analysis</b>											
<i>LSC, Tritium Dist, Liquid</i>											
Tritium		1890	+/-420	544	700	pCi/L		BXF1 08/28/07	1821	664566	3
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/28/07	2312	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: **SC DHEC ChemNuc GW**

Page 2 of 3

Client Sample ID: 082407-21  
Sample ID: 192481004

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	61.3 ug/L	60.0	102	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	62.0 ug/L	60.0	103	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	61.1 ug/L	60.0	102	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	59.9 ug/L	60.0	100	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-21  
Sample ID: 192481004

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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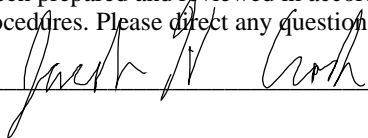
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-22  
Sample ID: 192481005  
Matrix: Ground Water  
Collect Date: 24-AUG-07 13:05  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Rad Gamma Spec Analysis</b>											
<i>Gammascpec, Gamma, Liquid (Standard List)</i>											
<b>Rad Gas Flow Proportional Counting</b>											
<i>GFPC, Gross Alpha/Beta, liquid</i>											
<b>Rad Liquid Scintillation Analysis</b>											
<i>LSC, Tritium Dist, Liquid</i>											
Tritium	U	ND	+/-323	544	700	pCi/L		BXF1 08/28/07	1837	664566	3
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/28/07	2341	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Company : SC DHEC  
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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 2 of 3

Client Sample ID: 082407-22  
Sample ID: 192481005

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	61.6 ug/L	60.0	103	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	61.9 ug/L	60.0	103	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	60.2 ug/L	60.0	100	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.0 ug/L	60.0	100	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-22  
Sample ID: 192481005

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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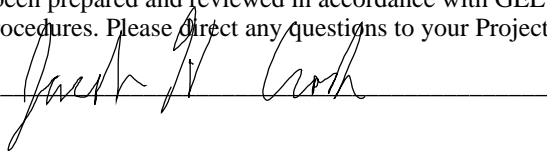
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-23  
Sample ID: 192481006  
Matrix: Ground Water  
Collect Date: 24-AUG-07 14:30  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Rad Gamma Spec Analysis</b>											
<i>Gammascpec, Gamma, Liquid (Standard List)</i>											
<b>Rad Gas Flow Proportional Counting</b>											
<i>GFPC, Gross Alpha/Beta, liquid</i>											
<b>Rad Liquid Scintillation Analysis</b>											
<i>LSC, Tritium Dist, Liquid</i>											
Tritium	U	ND	+/-342	551	700	pCi/L		BXF1 08/28/07	1854	664566	3
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/29/07	0010	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Report Date: August 31, 2007

Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Page 2 of 3

Client Sample ID: 082407-23  
Sample ID: 192481006  
Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
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2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	61.9 ug/L	60.0	103	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	60.9 ug/L	60.0	101	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	60.7 ug/L	60.0	101	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.1 ug/L	60.0	100	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-23  
Sample ID: 192481006

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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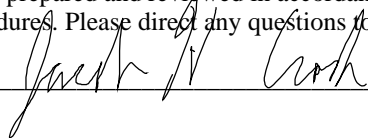
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
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Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy  
Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-24  
Sample ID: 192481007  
Matrix: Ground Water  
Collect Date: 24-AUG-07 15:05  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-328	550	700	pCi/L		BXF1 08/28/07	1910	664566	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/29/07	0039	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: **SC DHEC ChemNuc GW**

Page 2 of 3

Client Sample ID: 082407-24  
Sample ID: 192481007

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	63.3 ug/L	60.0	106	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	60.8 ug/L	60.0	101	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	60.8 ug/L	60.0	101	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	59.7 ug/L	60.0	99	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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## Certificate of Analysis

Company : SC DHEC  
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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-24  
Sample ID: 192481007

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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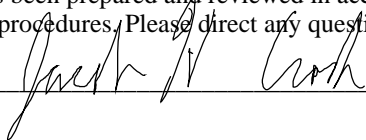
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
h Preparation or preservation holding time was exceeded

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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-25  
Sample ID: 192481008  
Matrix: Ground Water  
Collect Date: 24-AUG-07 15:30  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-284	538	700	pCi/L		BXF1 08/28/07	1927	664566	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/29/07	0107	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 2 of 3

Client Sample ID: 082407-25  
Sample ID: 192481008

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	63.2 ug/L	60.0	105	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	61.8 ug/L	60.0	103	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	60.5 ug/L	60.0	101	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	59.8 ug/L	60.0	100	(77%-122%)

### Notes:

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- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-25  
Sample ID: 192481008

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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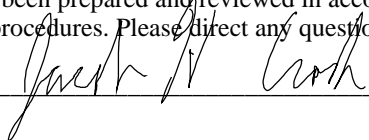
- BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
h Preparation or preservation holding time was exceeded

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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 3

Client Sample ID: 082407-26  
Sample ID: 192481009  
Matrix: Ground Water  
Collect Date: 24-AUG-07 16:00  
Receive Date: 27-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-327	534	700	pCi/L		BXF1 08/28/07	1943	664566	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1 08/29/07	0136	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1				
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1				
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1				
1,4-Dioxane	U	ND		20.0	200	ug/L	1				
2-Butanone	U	ND		1.25	10.0	ug/L	1				
Acrolein	U	ND		3.00	10.0	ug/L	1				
Acrylonitrile	U	ND		1.00	10.0	ug/L	1				
Benzene	U	ND		0.300	1.00	ug/L	1				
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1				
Bromoform	U	ND		0.250	1.00	ug/L	1				
Bromomethane	U	ND		0.500	1.00	ug/L	1				
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1				
Chlorobenzene	U	ND		0.250	1.00	ug/L	1				
Chloroethane	U	ND		0.500	1.00	ug/L	1				
Chloroform	U	ND		0.250	1.00	ug/L	1				
Chloromethane	U	ND		0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1				
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1				
Ethylbenzene		ND		0.250	1.00	ug/L	1				

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Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 2 of 3

Client Sample ID: 082407-26  
Sample ID: 192481009  
Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
<b>Volatile Organics</b>											
<i>GEL 8260B Method List Liquid</i>											
	U										
Methylene chloride	U	ND		2.00	5.00	ug/L	1				
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1				
Toluene	U	ND		0.250	1.00	ug/L	1				
Trichloroethylene	U	ND		0.250	1.00	ug/L	1				
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1				
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1				
Vinyl chloride	U	ND		0.500	1.00	ug/L	1				
Xylenes (total)	U	ND		0.250	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1				

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	63.5 ug/L	60.0	106	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	60.5 ug/L	60.0	101	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	60.7 ug/L	60.0	101	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.5 ug/L	60.0	101	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
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## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Contact: Mr. Mike Gandy  
Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 3 of 3

Client Sample ID: 082407-26  
Sample ID: 192481009

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

