PIEDMONT GEOLOGIC
SMART EARTH SOLUTIONS

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October 2, 2015

Ms. Karen Trimberger
North Carolina State University
Environmental Health and Safety Center
Campus Box 8007
Raleigh, NC 27695-8007

RE: Results of August 2015 Groundwater Sampling and Analysis
North Carolina State University – Lot 86 Site
Raleigh, North Carolina

Dear Karen:

Enclosed are results of groundwater sampling and analysis conducted by Piedmont Geologic during August 2015 at the North Carolina State University (NCSU) Lot 86 site. The following materials are included.

1. Site location and layout maps (Figures 1-3).
2. August 2015 groundwater potentiometric-surface contour maps (Figures 4-6).
3. Tabulated monitoring-well construction specifications (Table 1).
4. Tabulated August 2015 groundwater potentiometric-surface data (Table 2).
5. Tabulated results of laboratory analysis for August 2015 groundwater samples (Tables 3 through 5).
6. Field sampling forms.
7. Laboratory reports of analysis for August 2015 groundwater samples.

The groundwater sampling/analysis event was completed in accordance with the site *Groundwater Sampling and Analysis Plan* (SAP) and *Groundwater Sampling Quality Assurance Plan* (QAP), both dated June 3, 2014. Clarifications of specific groundwater sampling/analysis details are listed as follows.

- Due to dry wells, alternate wells were substituted for the primary wells specified for sampling in the SAP/QAP, as follows.
    - Monitoring-well MW-8 was substituted for monitoring-well MW-2.
    - Recovery well RW-10 was substituted for monitoring-well MW-6.
    - Recovery well RW-6 was substituted for monitoring-well MW-11.
    - Recovery well RW-1 was substituted for monitoring-well MW-15. Monitoring-well MW-13 is specified in the SAP/QAP as the alternate for MW-15. However, MW-13 contained an insufficient volume of groundwater for laboratory analysis.
- Due to insufficient well volumes, groundwater samples for gross beta and tritium analysis were not collected from monitoring-wells MW-16S and MW-17S.

If you have any questions or require any additional information, please call.

Sincerely,

Peter J. Dressel

Peter J. Dressel, P.G.
President

Enclosure

FIGURES

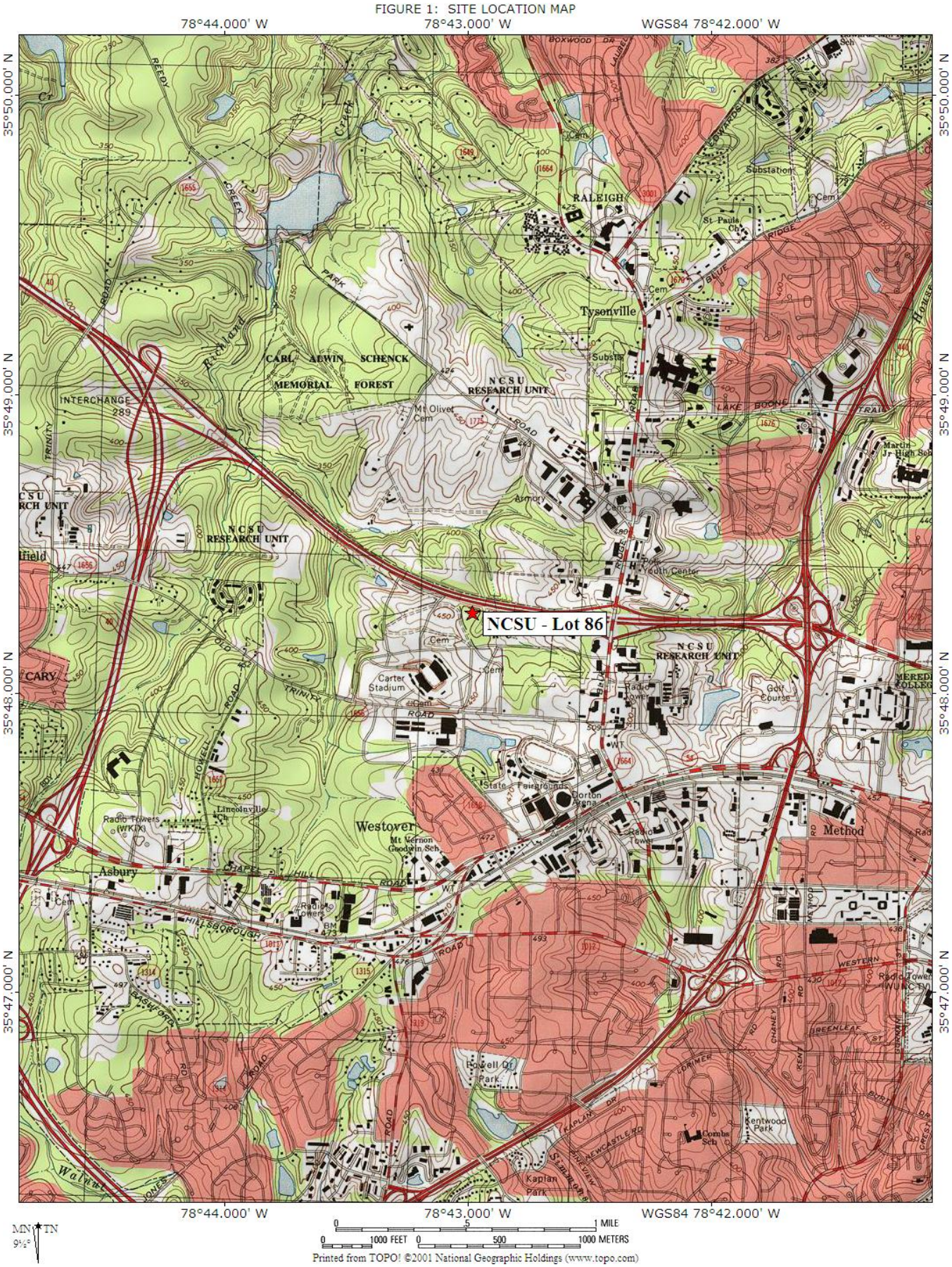
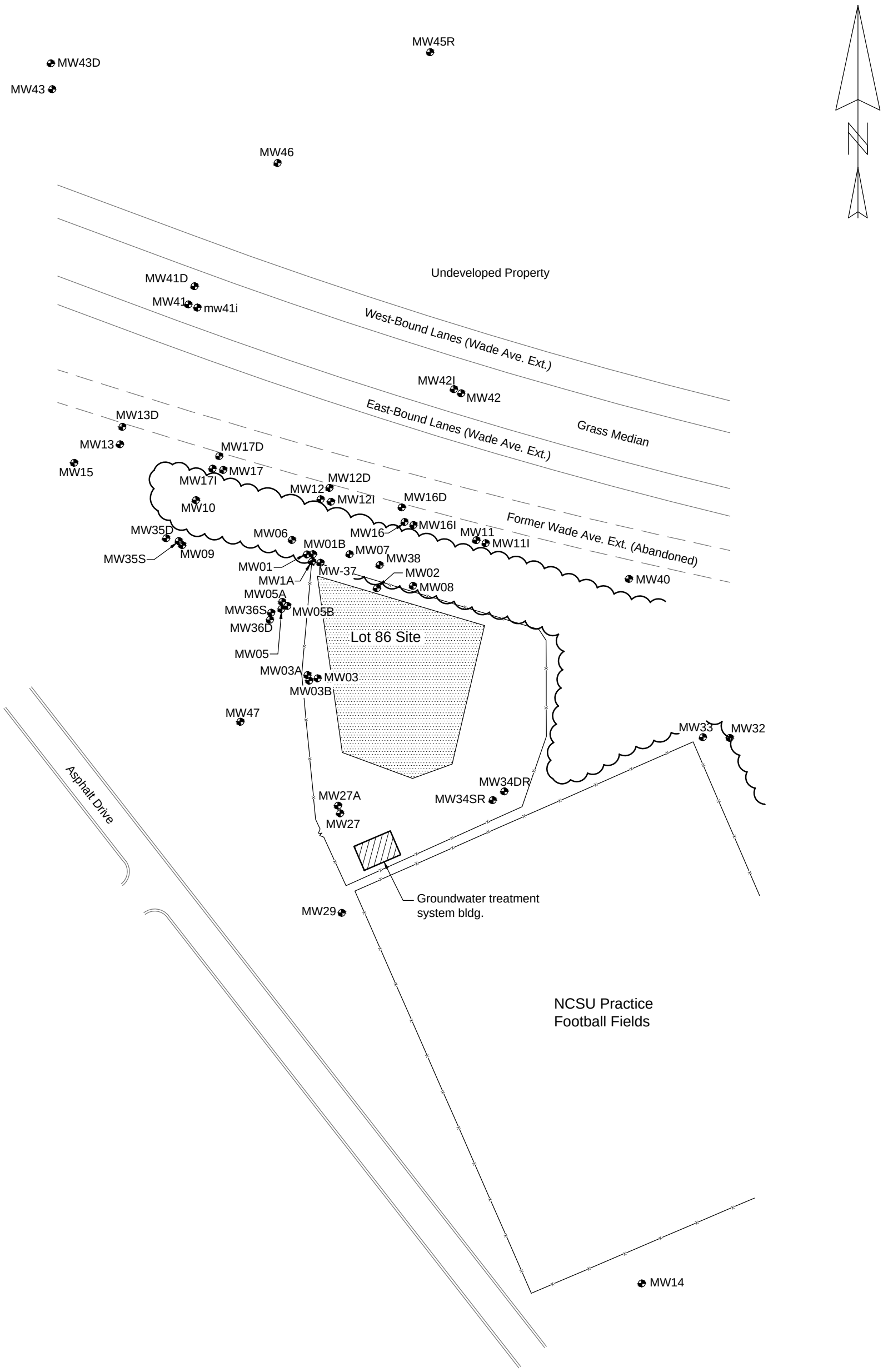


FIGURE 1
SITE LOCATION MAP
NCSU – Lot 86
Raleigh, North Carolina



LEGEND

MW33 Monitoring Well

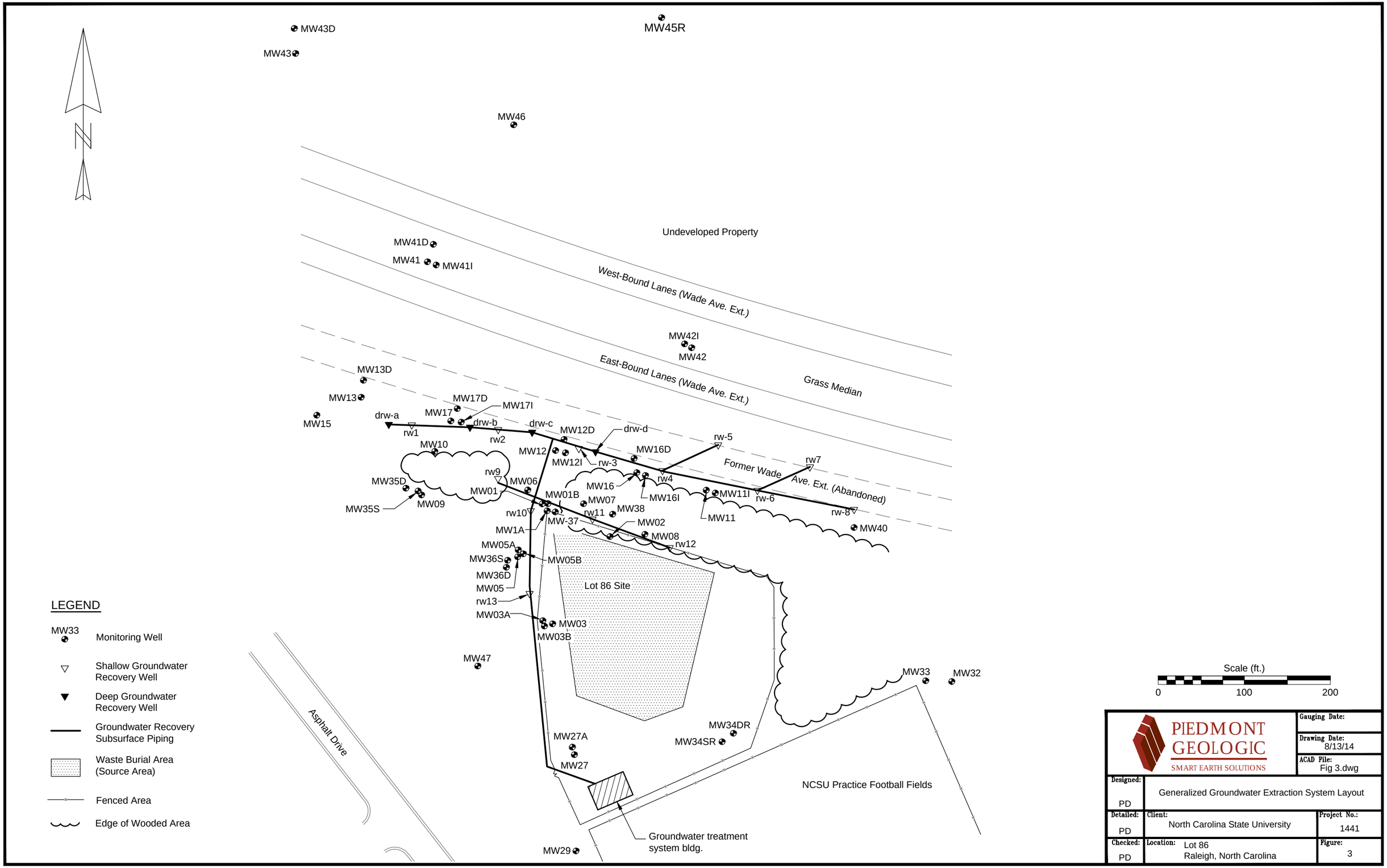
Waste Burial Area (Source Area)

Fenced Area

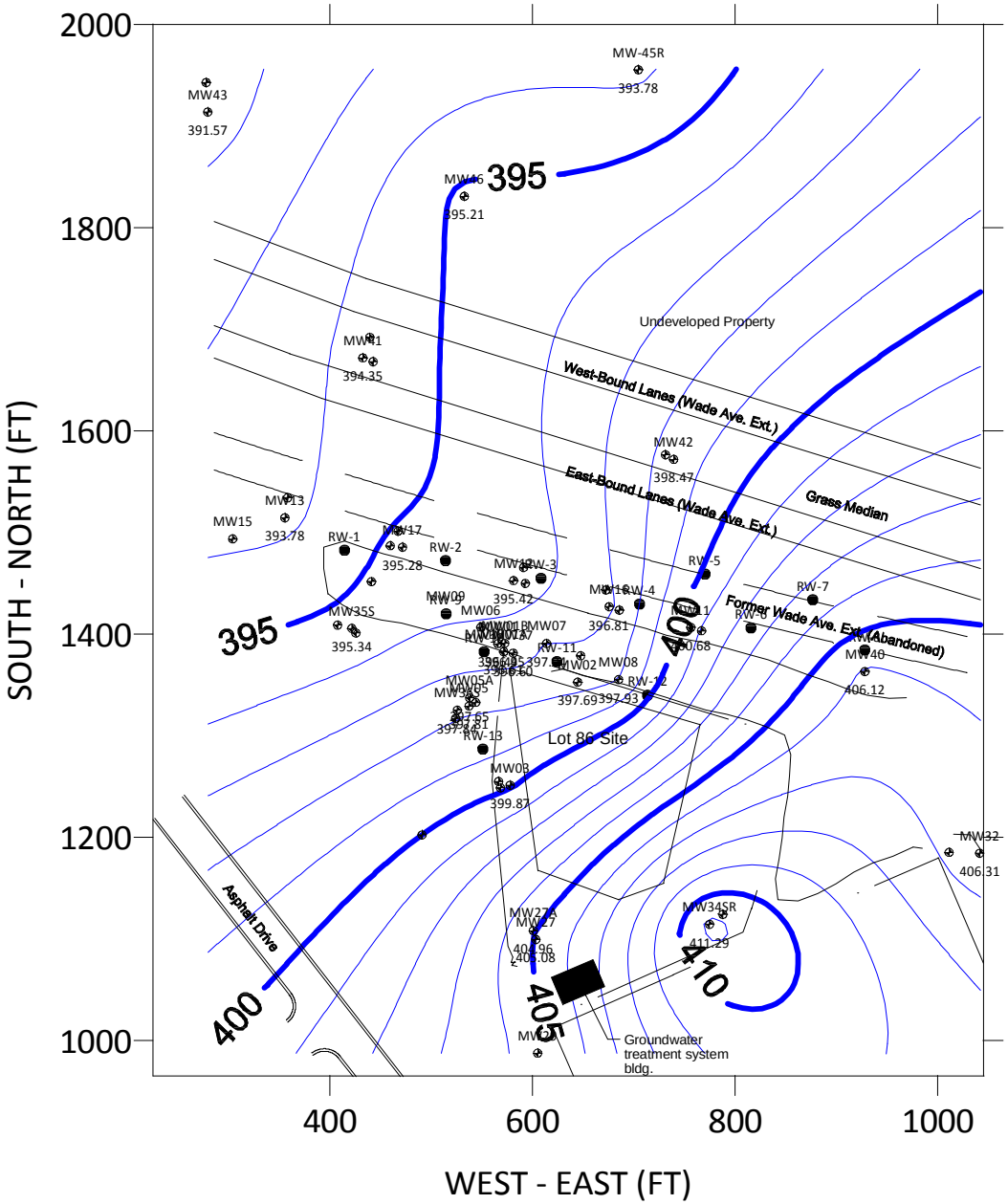
Edge of Wooded Area

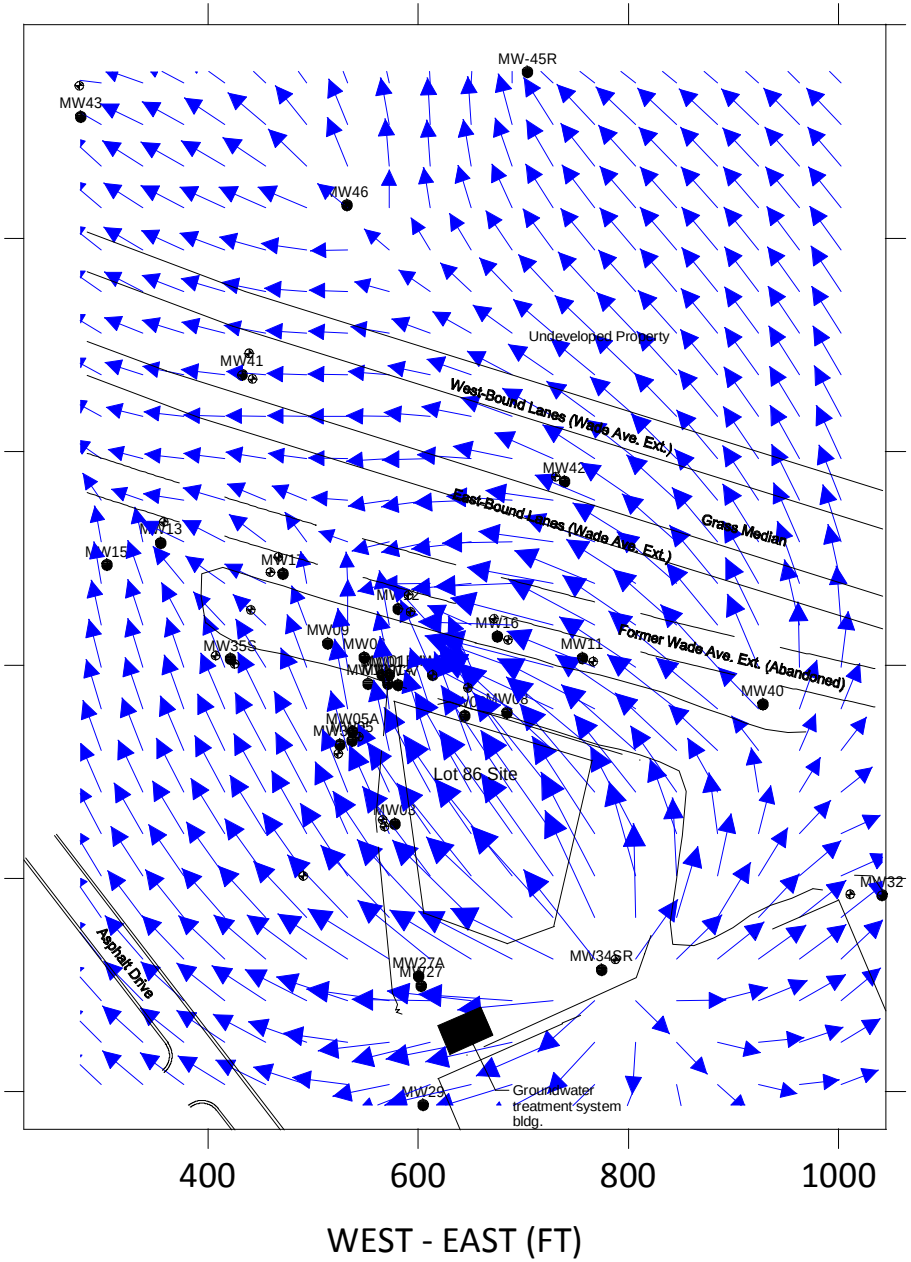
PIEDMONT GEOLOGIC
SMART EARTH SOLUTIONS

Gauging Date:		
Drawing Date: 8/13/14		
ACAD File: Fig 2.dwg		
Designed: PD	Site Map	
Detailed: PD	Client: North Carolina State University	Project No.: 1441
Checked: PD	Location: Lot 86 Raleigh, North Carolina	Figure: 2

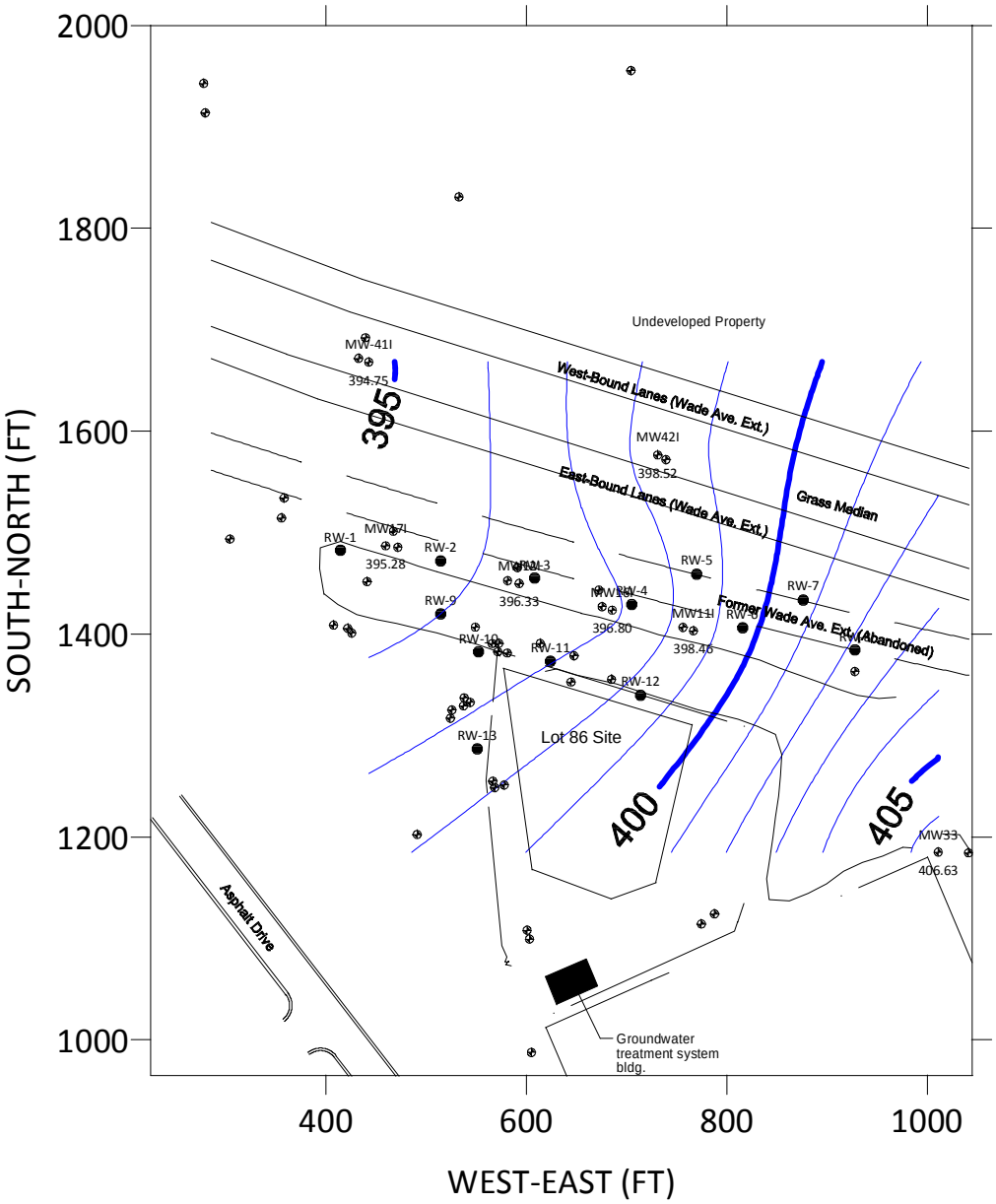

MW43D
MW45R
MW43
MW46
Undeveloped Property
MW41D
MW41
MW41I
West-Bound Lanes (Wade Ave. Ext.)
MW42I
MW42
East-Bound Lanes (Wade Ave. Ext.)
Grass Median
MW13D
MW13
MW17D
MW17I
MW17
MW15
drw-a
drw-b
drw-c
drw-d
rw1
rw2
MW12D
MW10
MW12
MW12I
rw-3
MW16D
rw-5
rw7
Former Wade Ave. Ext. (Abandoned)
rw9
MW06
MW16
rw4
MW35D
MW01
MW01B
MW07
MW16I
MW11I
rw-6
MW35S
MW09
rw10
rw11
MW38
MW11
rw-8
MW40
MW1A
MW-37
MW02
MW08
rw12
MW05A
MW36S
MW05B
MW36D
MW05
Lot 86 Site
rw13
MW03A
MW03
MW03B
MW47
MW33
MW32
Asphalt Drive
MW34DR
MW27A
MW34SR
MW27
NCSU Practice Football Fields
Groundwater treatment system bldg.
MW29
LEGEND
MW33
Monitoring Well
Shallow Groundwater Recovery Well
Deep Groundwater Recovery Well
Groundwater Recovery Subsurface Piping
Waste Burial Area (Source Area)
Fenced Area
Edge of Wooded Area
Scale (ft.)
0
100
200
PIEDMONT GEOLOGIC
SMART EARTH SOLUTIONS
Gauging Date:
Drawing Date: 8/13/14
ACAD File: Fig 3.dwg
Designed: PD
Generalized Groundwater Extraction System Layout
Detailed: PD
Client: North Carolina State University
Project No.: 1441
Checked: PD
Location: Lot 86 Raleigh, North Carolina
Figure: 3

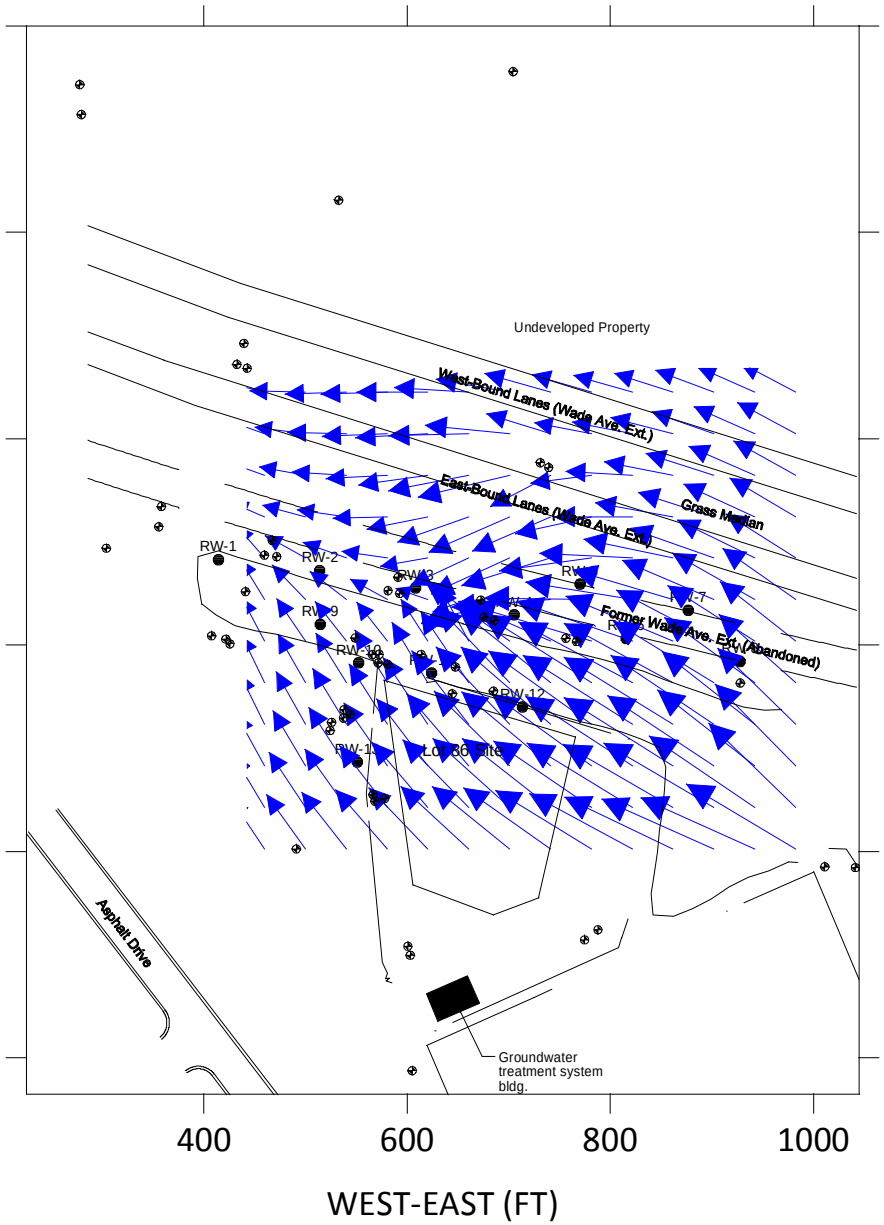
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR:
AND FLOW VECTOR MAPS: AUGUST 17, 2015
NCSU - LOT 86 SITE



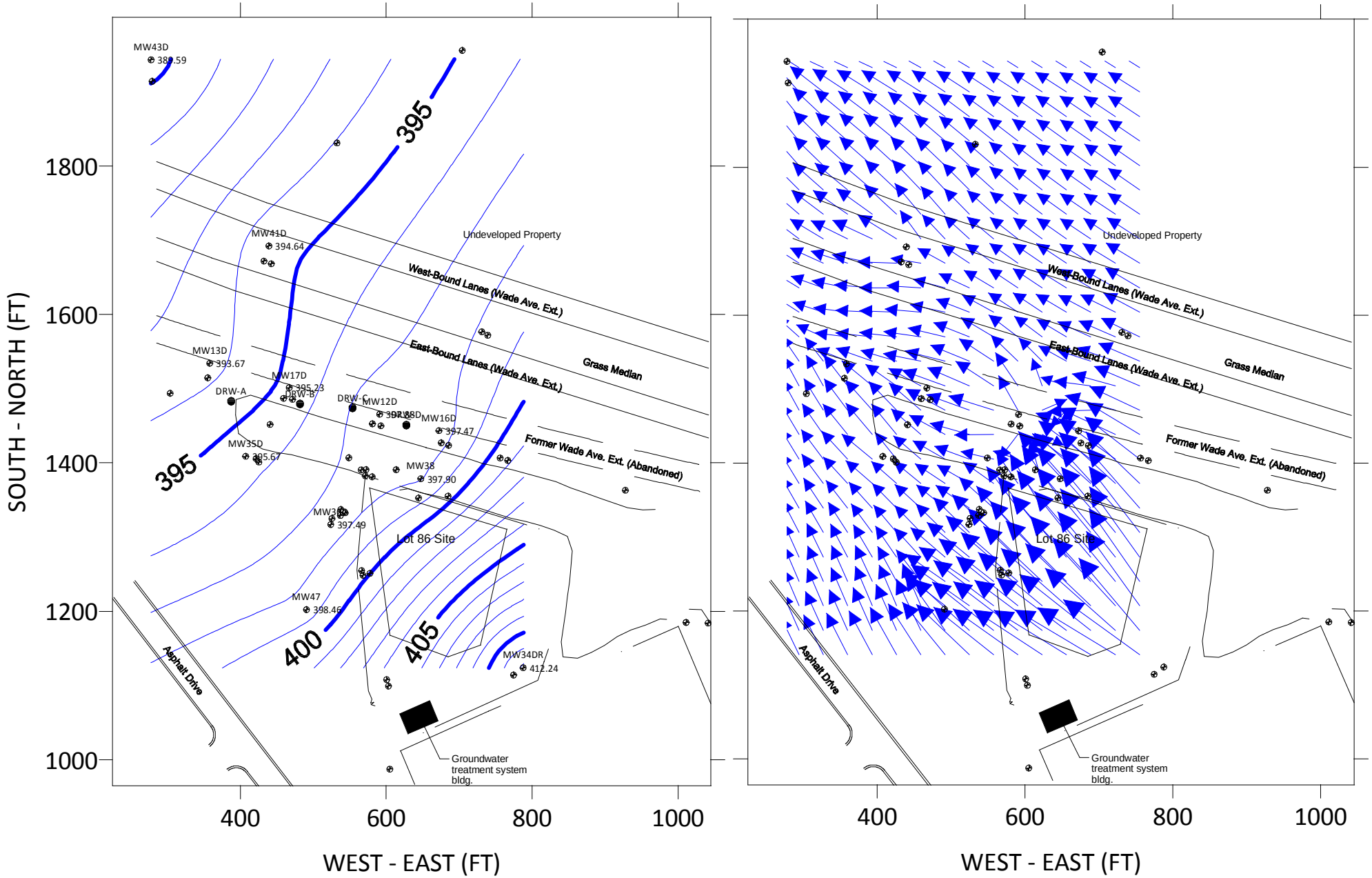


INTERMEDIATE GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR
AND FLOW VECTOR MAPS: AUGUST 17, 2015
NCSU - LOT 86 SITE





DEEP (BEDROCK) GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR
AND FLOW VECTOR MAPS: AUGUST 17, 2015
NCSU - LOT 86 SITE



TABLES

TABLE 1
GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Well I.D.	Northing	Easting	Well Class (1)	Top of Casing Elevation (2)	Ground Elev. (2)	Screen Elevation (2)		Screen Depth (3)	
						Top	Bottom	Top	Bottom
MW-1	747,972.81	2,083,713.47	S	439.30	437.73	400.5	395.5	37.2	42.2
MW-1A	747,968.37	2,083,717.18	S	438.92	438.05	397.4	392.4	40.7	45.7
MW-1B	747,972.08	2,083,718.51	S	438.25	437.93	387.4	382.4	50.5	55.5
MW-2	747,934.50	2,083,791.44	S	448.74	446.00	401.2	396.2	44.8	49.8
MW-3	747,831.30	2,083,724.81	S	445.39	443.58	411.2	406.2	32.4	37.4
MW-3A	747,833.58	2,083,714.96	S-I	443.15	441.89	381.9	379.9	60.0	62.0
MW-3B	747,829.10	2,083,716.16	S-I	443.66	442.02	371.0	369.0	71.0	73.0
MW-4	747,738.38	2,083,847.26	S	454.32	452.54	405.5	400.5	47.0	52.0
MW-5	747,911.73	2,083,684.29	S	441.26	439.53	400.5	395.5	39.0	44.0
MW-5A	747,917.11	2,083,685.48	S	439.81	439.38	393.4	388.4	46.0	51.0
MW-5B	747,913.31	2,083,688.75	S-I	440.13	439.72	383.7	378.7	56.0	61.0
MW-6	747,987.81	2,083,695.81	S	438.61	436.36	402.9	397.9	33.5	38.5
MW-7	747,972.40	2,083,759.49	S	441.94	440.09	401.3	396.3	38.8	43.8
MW-8	747,936.68	2,083,831.30	S	447.85	445.91	397.9	392.9	48.0	53.0
MW-9	747,984.18	2,083,569.82	S	442.52	ND	ND	ND	ND	ND
MW-10	748,035.32	2,083,584.16	S	438.09	ND	ND	ND	ND	ND
MW-11	747,987.24	2,083,904.54	S	430.01	429.56	405.6	400.6	24.0	29.0
MW-11I	747,982.67	2,083,914.92	I	434.29	431.20	373.6	363.6	57.6	67.6
MW-12	748,035.37	2,083,726.83	S	427.24	426.18	397.2	392.2	29.0	34.0
MW-12I	748,031.08	2,083,738.92	I	430.70	427.45	359.8	354.8	67.7	72.7
MW-12D	748,048.21	2,083,735.45	D	427.45	427.95	331.0	321.0	97.0	107.0
MW-13	748,099.25	2,083,498.80	S	423.82	423.73	394.7	389.7	29.0	34.0
MW-13D	748,122.47	2,083,503.49	D	423.43	423.93	333.9	323.9	90.0	100.0
MW-14	747,148.54	2,084,091.12	S	451.87	450.38	413.4	408.4	37.0	42.0
MW-15	748,078.43	2,083,447.10	S	432.38	431.67	397.7	392.7	34.0	39.0
MW-16	748,009.06	2,083,822.21	S	427.94	427.61	399.6	394.6	28.0	33.0
MW-16I	748,004.62	2,083,832.41	I	432.14	429.23	374.7	364.7	54.5	64.5
MW-16D	748,024.15	2,083,819.82	D	428.98	429.48	349.5	339.5	80.0	90.0
MW-17	748,068.64	2,083,615.41	S	425.09	424.02	398.0	393.0	26.0	31.0
MW-17I	748,062.71	2,083,626.56	I	427.74	424.96	371.8	361.8	53.2	63.2
MW-17D	748,087.86	2,083,612.19	D	425.44	425.94	330.9	320.9	95.0	105.0
MW-27	747,678.44	2,083,751.29	S	448.26	447.22	407.2	402.2	40.0	45.0
MW-27A	747,687.36	2,083,749.28	S	448.55	447.40	392.9	388.9	54.5	58.5
MW-29	747,565.34	2,083,753.75	S	447.67	446.01	395.5	390.5	50.5	55.5
MW-30	747,579.80	2,084,072.68	S	440.86	438.17	399.2	389.2	39.0	49.0
MW-31	747,564.14	2,084,073.85	S	440.72	438.15	396.2	386.2	42.0	52.0
MW-32	747,760.44	2,084,186.72	S	438.15	436.21	411.4	401.4	24.8	34.8
MW-33	747,760.99	2,084,157.91	I	441.38	438.42	378.4	368.4	60.0	70.0
MW-34SR	747,694.98	2,083,926.43	S	454.82	452.32	424.3	404.3	28.0	48.0
MW-34DR	747,702.24	2,083,936.61	D	454.71	452.21	361.2	351.2	91.0	101.0
MW-35S	747,989.14	2,083,565.01	S	443.12	441.57	401.6	391.6	40.0	50.0
MW-35D	747,991.91	2,083,552.20	D	444.69	441.99	305.0	295.0	137.0	147.0

TABLE 1 (continued)
GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Well I.D.	Northing	Easting	Well Class (1)	Top of Casing Elevation (2)	Ground Elev. (2)	Screen Elevation (2)		Screen Depth (3)	
						Top	Bottom	Top	Bottom
MW-36S	747,905.86	2,083,672.19	S	442.71	439.64	399.6	389.6	40.0	50.0
MW-36D	747,898.07	2,083,671.54	D	442.87	439.75	335.5	325.5	104.3	114.3
MW-37	747,964.33	2,083,718.54	S	440.88	438.70	398.7	388.7	40.0	50.0
MW-38	747,959.35	2,083,794.05	D	445.38	442.47	345.4	335.4	97.1	107.1
MW-40	747,908.53	2,084,062.93	S	435.47	432.87	405.1	395.1	27.8	37.8
MW-41	748,239.12	2,083,608.18	S	421.17	421.30	396.9	386.9	24.4	34.4
MW-41I	748,235.91	2,083,619.56	I	421.57	421.47	371.0	361.0	50.5	60.5
MW-41D	748,278.60	2,083,583.47	D	420.67	421.17	341.2	331.2	80.0	90.0
MW-42	748,149.51	2,083,907.73	S	427.25	427.18	402.0	392.0	25.2	35.2
MW-42I	748,155.61	2,083,896.58	I	426.68	426.76	376.8	366.8	50.0	60.0
MW-43	748,526.66	2,083,396.75	S	440.59	438.74	385.4	375.4	53.3	63.3
MW-43D	748,532.52	2,083,416.56	D	438.01	435.50	339.5	329.5	96.0	106.0
MW-45R	748,539.15	2,083,844.73	S	426.15	426.45	396.5	381.5	30.0	45.0
MW-46	748,444.92	2,083,683.30	S	451.35	449.42	396.2	386.2	53.2	63.2
MW-47	747,787.80	2,083,636.72	D	441.11	441.61	336.6	321.6	105.0	120.0

(1) S = shallow wells with screen intervals in the elevation range from 382-413 ft;
I = intermediate-depth wells with screen intervals in the elevation range from 355-377 ft;
D = deep wells with screen intervals in the elevation range from 295-360 ft in bedrock.
(2) Measured in feet relative to National Vertical Datum (NGVD) of 1929.
(3) Measured in feet below ground surface.
ND = No data currently available.

TABLE 2
MONITORING-WELL GAUGING DATA: AUGUST 17, 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Well I.D.	Northing	Easting	Well Class	Top of Casing Elevation (ft)(1)	Depth to Ground-water (ft)(2)	Groundwater Elevation (ft)(1)
MW-1	747,972.81	2,083,713.47	shallow	439.30	42.81	396.49
MW-1A	747,968.37	2,083,717.18	shallow	438.92	42.31	396.61
MW-1B	747,972.08	2,083,718.51	shallow	438.25	41.80	396.45
MW-2	747,934.50	2,083,791.44	shallow	448.74	51.05	397.69
MW-3	747,831.30	2,083,724.81	shallow	445.39	45.52	399.87
MW-3A	747,833.58	2,083,714.96	shallow	443.15	43.48	399.67
MW-3B	747,829.10	2,083,716.16	intermediate	443.66	42.78	400.88
MW-5	747,911.73	2,083,684.29	shallow	441.26	43.45	397.81
MW-5A	747,917.11	2,083,685.48	shallow	439.81	42.16	397.65
MW-5B	747,913.31	2,083,688.75	intermediate	440.13	42.51	397.62
MW-6	747,987.81	2,083,695.81	shallow	438.61	DRY	NA
MW-7	747,972.40	2,083,759.49	shallow	441.94	44.90	397.04
MW-8	747,936.68	2,083,831.30	shallow	447.85	49.92	397.93
MW-9	747,984.18	2,083,569.82	shallow	442.52	DRY	NA
MW-10	748,035.32	2,083,584.16	shallow	438.09	DRY	NA
MW-11	747,987.24	2,083,904.54	shallow	430.01	29.33	400.68
MW-11I	747,982.67	2,083,914.92	intermediate	434.29	35.83	398.46
MW-12	748,035.37	2,083,726.83	shallow	427.24	31.82	395.42
MW-12I	748,031.08	2,083,738.92	intermediate	430.70	34.37	396.33
MW-12D	748,048.21	2,083,735.45	deep	427.45	29.57	397.88
MW-13	748,099.25	2,083,498.80	shallow	423.82	30.04	393.78
MW-13D	748,122.47	2,083,503.49	deep	423.43	29.76	393.67
MW-14	747,148.54	2,084,091.12	shallow	451.87	34.54	417.33
MW-15	748,078.43	2,083,447.10	shallow	432.38	DRY	NA
MW-16	748,009.06	2,083,822.21	shallow	427.94	31.13	396.81
MW-16I	748,004.62	2,083,832.41	intermediate	432.14	35.34	396.80
MW-16D	748,024.15	2,083,819.82	deep	428.98	31.51	397.47
MW-17	748,068.64	2,083,615.41	shallow	425.09	29.81	395.28
MW-17I	748,062.71	2,083,626.56	intermediate	427.74	32.46	395.28
MW-17D	748,087.86	2,083,612.19	deep	425.44	30.21	395.23
MW-27	747,678.44	2,083,751.29	shallow	448.26	43.18	405.08
MW-27A	747,687.36	2,083,749.28	shallow	448.55	43.59	404.96
MW-29	747,565.34	2,083,753.75	shallow	447.67	43.29	404.38
MW-32	747,760.44	2,084,186.72	shallow	438.15	31.84	406.31
MW-33	747,760.99	2,084,157.91	intermediate	441.38	34.75	406.63
MW-34SR	747,694.98	2,083,926.43	shallow	454.82	43.53	411.29
MW-34DR	747,702.24	2,083,936.61	deep	454.71	42.47	412.24
MW-35S	747,989.14	2,083,565.01	shallow	443.12	47.78	395.34
MW-35D	747,991.91	2,083,552.20	deep	444.69	49.02	395.67

(continued)

TABLE 2 (continued)
MONITORING-WELL GAUGING DATA: AUGUST 17, 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Well I.D.	Northing	Easting	Well Class	Top of Casing Elevation (ft)(1)	Depth to Ground-water (ft)(2)	Groundwater Elevation (ft)(1)
MW-36S	747,905.86	2,083,672.19	shallow	442.71	44.87	397.84
MW-36D	747,898.07	2,083,671.54	deep	442.87	45.38	397.49
MW-37	747,964.33	2,083,718.54	shallow	440.88	44.28	396.60
MW-38	747,959.35	2,083,794.05	deep	445.38	47.48	397.90
MW-40	747,908.53	2,084,062.93	shallow	435.47	29.35	406.12
MW-41	748,239.12	2,083,608.18	shallow	421.17	26.82	394.35
MW-41I	748,235.91	2,083,619.56	intermediate	421.57	26.82	394.75
MW-41D	748,278.60	2,083,583.47	deep	420.67	26.03	394.64
MW-42	748,149.51	2,083,907.73	shallow	427.25	28.78	398.47
MW-42I	748,155.61	2,083,896.58	intermediate	426.68	28.16	398.52
MW-43	748,526.66	2,083,396.75	shallow	440.59	49.02	391.57
MW-43D	748,532.52	2,083,416.56	deep	438.01	48.42	389.59
MW-45R	748,539.15	2,083,844.73	shallow	426.15	32.37	393.78
MW-46	748,444.92	2,083,683.30	shallow	451.35	56.14	395.21
MW-47	747,787.80	2,083,636.72	deep	441.11	42.65	398.46

(1) Measured in feet relative to site datum.
(2) Measured relative to top-of-casing reference point.
NA = Not Applicable

TABLE 3
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-3**	**MW-8**	**MW-11I**	**MW-12S**	**MW-12I**	**MW-12I (2)**	**MW-12D**	**MW-13D**
Sample Date:	**8/27/15**	**8/27/15**	**8/20/15**	**8/27/15**	**8/26/15**	**8/26/15**	**8/20/15**	**8/25/15**
EPA Method 6200 (µg/L)(1)								
Benzene	**14.1**	<0.500	<0.500	**169**	**74.3**	**75.2**	<0.500	<0.500
Bromobenzene	<0.500	<0.500	<0.500	**3.30**	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	<0.500	<0.500	<0.500	**3.27**	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	**43.5**	**1.96**	<0.500	**22.1**	<0.500	<0.500	<0.500	<0.500
Bromoform	**106**	<0.500	<0.500	**4.16**	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	<0.500	<0.500	<0.500	**0.748**	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
tert-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Carbon tetrachloride	**275**	**236**	<0.500	**239**	**86.8**	**88.2**	<0.500	<0.500
Chloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chlorobenzene	**11.9**	<0.500	<0.500	**47.3**	**2.96**	**3.01**	<0.500	<0.500
Chloroform	**6,870**	**10,800**	<0.500	**12,000**	**7,060**	**6,980**	<0.500	**4.01**
Chloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
2-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	**4.70**	<0.500	<0.500	**0.924**	<0.500	<0.500	<0.500	<0.500
1,2-Dibromoethane (EDB)	**4,910**	**517**	<0.500	**5,790**	**18.1**	**18.0**	<0.500	<0.500
Dibromomethane	**1.15**	<0.500	<0.500	**0.682**	<0.500	<0.500	<0.500	<0.500
1,2-Dichlorobenzene	**0.713**	<0.500	<0.500	**5.35**	**0.606**	**0.593**	<0.500	<0.500
1,3-Dichlorobenzene	<0.500	<0.500	<0.500	**0.756**	<0.500	<0.500	<0.500	<0.500
1,4-Dichlorobenzene	**0.552**	**2.16**	<0.500	**3.77**	<0.500	<0.500	<0.500	<0.500
Dichlorodifluoromethane	<0.500	<0.500	<0.500	<0.500	**1.41**	**1.47**	<0.500	<0.500
1,1-Dichloroethane	**9.25**	<0.500	<0.500	**10.8**	<0.500	<0.500	<0.500	<0.500
1,2-Dichloroethane	**124**	**11.0**	<0.500	**93.3**	**4.16**	**4.19**	<0.500	<0.500
1,1-Dichloroethene	**20.5**	**1.32**	<0.500	**8.90**	**0.544**	**0.543**	<0.500	<0.500
cis-1,2-Dichloroethene	**8.70**	<0.500	<0.500	**0.806**	<0.500	<0.500	<0.500	<0.500
trans-1,2-Dichloroethene	**1.60**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloropropene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloropropane	**5,700**	**823**	<0.500	**20,300**	**208**	**205**	<0.500	**2.10**
1,3-Dichloropropane	**30.0**	**1.46**	<0.500	**176**	**0.704**	<0.500	<0.500	<0.500
Ethylbenzene	<0.500	<0.500	<0.500	**21.0**	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene chloride	**310**	**23.7**	<5.00	**873**	**112**	**113**	<5.00	<5.00
Methyl tert-butyl ether	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Naphthalene	<5.00	<5.00	<5.00	<5.00	**13.6**	**14.8**	<5.00	<5.00
n-Propylbenzene	<0.500	<0.500	<0.500	**0.602**	<0.500	<0.500	<0.500	<0.500
1,1,1,2-Tetrachloroethane	<0.500	<0.500	<0.500	**2.29**	<0.500	<0.500	<0.500	<0.500
1,1,2,2-Tetrachloroethane	**170**	<0.500	<0.500	**5.58**	<0.500	**0.502**	<0.500	<0.500
Tetrachloroethene	**84.6**	**146**	<0.500	**123**	**159**	**163**	<0.500	<0.500
Toluene	**2.20**	<0.500	<0.500	**142**	<0.500	<0.500	<0.500	<0.500
1,2,3-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1-Trichloroethane	**21.6**	**0.704**	<0.500	**1.38**	<0.500	<0.500	<0.500	<0.500
1,1,2-Trichloroethane	**12.2**	**0.503**	<0.500	**2,250**	**89.1**	**90.6**	<0.500	<0.500
Trichloroethene	**854**	**90.0**	<0.500	**375**	**137**	**138**	<0.500	<0.500
Trichlorofluoromethane	**1.42**	**2.19**	<0.500	**1.59**	**1.57**	**1.55**	<0.500	<0.500
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.60**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,3-Trichloropropane	**202**	<0.500	<0.500	**1,280**	**0.700**	**0.615**	<0.500	<0.500
1,2,4-Trimethylbenzene	**0.523**	<0.500	<0.500	**1.43**	**0.933**	**0.961**	<0.500	<0.500
1,3,5-Trimethylbenzene	<0.500	<0.500	<0.500	**2.26**	<0.500	<0.500	<0.500	<0.500
Vinyl chloride	**10.2**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Xylenes, total	<0.500	<1.00	<1.00	**75.3**	**3.88**	**3.91**	<1.00	<1.00
EPA Method 8260 SIM (µg/L)								
1,4-Dioxane	**486**	**3.86**	**110**	**58.8**	**18,300**	**15,400**	<3.00	<3.00

TABLE 3 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-16S**	**MW-16I**	**MW-16D**	**MW-17S**	**MW-17I**	**MW-17D**	**MW-27**	**MW-34DR**
Sample Date:	**8/25/15**	**8/25/15**	**8/21/15**	**8/26/15**	**8/25/15**	**8/25/15**	**8/26/15**	**8/18/15**
EPA Method 6200 (µg/L)(1)								
Benzene	**2.83**	**1.11**	**0.628**	<0.500	**5,710**	<0.500	<0.500	<0.500
Bromobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	<0.500	<0.500	<0.500	<0.500	**69.6**	<0.500	<0.500	<0.500
Bromoform	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
tert-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Carbon tetrachloride	**6.37**	<0.500	<0.500	**0.548**	**180**	**309**	**16.2**	<0.500
Chloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chlorobenzene	**1.32**	<0.500	<0.500	<0.500	**5.69**	<0.500	<0.500	<0.500
Chloroform	**111**	**18.6**	<0.500	**13.7**	**6,350**	**3,040**	**33.8**	<0.500
Chloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
2-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dibromoethane (EDB)	<0.500	<0.500	<0.500	<0.500	**32.5**	**5.79**	<0.500	<0.500
Dibromomethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichlorobenzene	**0.628**	<0.500	<0.500	<0.500	**0.715**	<0.500	<0.500	<0.500
1,3-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,4-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dichlorodifluoromethane	<0.500	<0.500	<0.500	<0.500	**2.49**	**2.20**	<0.500	<0.500
1,1-Dichloroethane	<0.500	<0.500	<0.500	<0.500	**7.47**	**0.566**	<0.500	<0.500
1,2-Dichloroethane	**2.98**	**1.16**	<0.500	<0.500	<0.500	**1.39**	<0.500	<0.500
1,1-Dichloroethene	**1.88**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
cis-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
trans-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloropropene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloropropane	**198**	**45.2**	**1.61**	**0.960**	**880**	**197**	**19.4**	<0.500
1,3-Dichloropropane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltolluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene chloride	<5.00	<5.00	<5.00	<5.00	**248**	<5.00	<5.00	<5.00
Methyl tert-butyl ether	<0.500	<0.500	<0.500	<0.500	**0.783**	<0.500	<0.500	<0.500
Naphthalene	<5.00	<5.00	<5.00	<0.500	<5.00	<5.00	<5.00	<5.00
n-Propylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	**4.65**	<0.500	<0.500	<0.500
Tetrachloroethene	**153**	**12.6**	<0.500	<0.500	**12.7**	**90.2**	**2.09**	<0.500
Toluene	**0.921**	<0.500	<0.500	<0.500	**1.39**	<0.500	<0.500	<0.500
1,2,3-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1-Trichloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2-Trichloroethane	**49.1**	**0.917**	<0.500	<0.500	**30.6**	**40.4**	<0.500	<0.500
Trichloroethene	**126**	**8.82**	<0.500	<0.500	**243**	**162**	**9.95**	<0.500
Trichlorofluoromethane	<0.500	<0.500	<0.500	<0.500	**1.15**	**0.905**	<0.500	<0.500
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.500	<0.500	<0.500	<0.500	**3.10**	**5.31**	<0.500	<0.500
1,2,3-Trichloropropane	<0.500	<0.500	<0.500	<0.500	**17.3**	**3.53**	<0.500	<0.500
1,2,4-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	**1.54**	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Vinyl chloride	**2.91**	**1.68**	<0.500	<0.500	**1.24**	<0.500	<0.500	<0.500
Xylenes, total	**2.24**	<1.00	<1.00	<1.00	**9.84**	<1.00	<1.00	<1.00
EPA Method 8260 SIM (µg/L)								
1,4-Dioxane	**32.6**	**3,500**	**387**	<3.00	**468**	**14.4**	<3.00	<3.00

TABLE 3 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-35S**	**MW-35D**	**MW-36S**	**MW-36D**	**MW-36D (3)**	**MW-37**	**MW-38**	**MW-41S**
Sample Date:	**8/21/15**	**8/20/15**	**8/25/15**	**8/21/15**	**8/21/15**	**8/27/15**	**8/19/15**	**8/18/15**
EPA Method 6200 (µg/L)(1)								
Benzene	<0.500	<0.500	**0.533**	<0.500	<0.500	**8,200**	<0.500	<0.500
Bromobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**27.1**	<0.500	<0.500
Bromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	**242**	<0.500	<0.500
Bromoform	<0.500	<0.500	**0.706**	<0.500	<0.500	**0.576**	<0.500	<0.500
n-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**3.47**	<0.500	<0.500
sec-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**2.22**	<0.500	<0.500
tert-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**1.63**	<0.500	<0.500
Carbon tetrachloride	<0.500	**1.95**	**35.0**	**5.62**	**5.67**	**3.19**	<0.500	<0.500
Chloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	**0.535**	<0.500	<0.500
Chlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**107**	<0.500	<0.500
Chloroform	<0.500	**17.0**	**706**	**315**	**311**	**10,000**	<0.500	**0.511**
Chloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	**4.24**	<0.500	<0.500
2-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	**18.0**	<0.500	<0.500
4-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	**6.21**	<0.500	<0.500
Dibromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	**0.652**	<0.500	<0.500
1,2-Dibromoethane (EDB)	<0.500	<0.500	**20.8**	<0.500	<0.500	**13.9**	<0.500	<0.500
Dibromomethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**467**	<0.500	<0.500
1,3-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**29.9**	<0.500	<0.500
1,4-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**57.3**	<0.500	<0.500
Dichlorodifluoromethane	<0.500	<0.500	<0.500	<0.500	<0.500	**1.33**	<0.500	<0.500
1,1-Dichloroethane	<0.500	<0.500	**0.534**	<0.500	<0.500	**6.31**	<0.500	<0.500
1,2-Dichloroethane	<0.500	<0.500	**11.0**	**0.924**	**0.956**	**976**	<0.500	<0.500
1,1-Dichloroethene	<0.500	<0.500	**1.80**	<0.500	<0.500	**18.5**	<0.500	<0.500
cis-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	**19.8**	<0.500	<0.500
trans-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	**1.72**	<0.500	<0.500
1,1-Dichloropropene	<0.500	<0.500	<0.500	<0.500	<0.500	**0.537**	<0.500	<0.500
1,2-Dichloropropane	<0.500	<0.500	**204**	**11.1**	**10.9**	**3,320**	<0.500	<0.500
1,3-Dichloropropane	<0.500	<0.500	<0.500	<0.500	<0.500	**19.5**	<0.500	<0.500
Ethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**114**	<0.500	<0.500
Isopropylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	**5.73**	<1.00	<1.00
p-Isopropyltoluene	<0.500	<0.500	<0.500	<0.500	<0.500	**3.84**	<0.500	<0.500
Methylene chloride	<5.00	<5.00	**6.50**	<5.00	<5.00	**11,500**	<5.00	<5.00
Methyl tert-butyl ether	<0.500	<0.500	<0.500	<0.500	<0.500	**2.97**	<0.500	<0.500
Naphthalene	<5.00	<0.500	<0.500	<5.00	<5.00	**32.2**	<5.00	<5.00
n-Propylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**10.8**	<0.500	<0.500
1,1,1,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2,2-Tetrachloroethane	<0.500	<0.500	**1.21**	<0.500	<0.500	**4.63**	<0.500	<0.500
Tetrachloroethene	<0.500	<0.500	**10.1**	**0.936**	**0.927**	**353**	<0.500	<0.500
Toluene	<0.500	<0.500	<0.500	<0.500	<0.500	**729**	<0.500	<0.500
1,2,3-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**0.855**	<0.500	<0.500
1,2,4-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**3.26**	<0.500	<0.500
1,1,1-Trichloroethane	<0.500	<0.500	**0.864**	<0.500	<0.500	**5.44**	<0.500	<0.500
1,1,2-Trichloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	**9.13**	<0.500	<0.500
Trichloroethene	<0.500	<0.500	**44.3**	**2.85**	**2.75**	**942**	<0.500	<0.500
Trichlorofluoromethane	<0.500	<0.500	<0.500	<0.500	<0.500	**3.04**	<0.500	<0.500
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.500	<0.500	<0.500	<0.500	<0.500	**0.704**	<0.500	<0.500
1,2,3-Trichloropropane	<0.500	<0.500	**2.95**	<0.500	<0.500	**66.7**	<0.500	<0.500
1,2,4-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**103**	<0.500	<0.500
1,3,5-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	**56.7**	<0.500	<0.500
Vinyl chloride	<0.500	<0.500	<0.500	<0.500	<0.500	**4.52**	<0.500	<0.500
Xylenes, total	<1.00	<1.00	<1.00	<1.00	<1.00	**559**	<1.00	<1.00
EPA Method 8260 SIM (µg/L)								
1,4-Dioxane	<3.00	<3.00	**5.67**	<3.00	<3.00	**10,300**	<3.00	<3.00

TABLE 3 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-41I**	**MW-41D**	**MW-42S**	**MW-42I**	**MW-43S**	**MW-43D**	**MW-45R**	**MW-46**
Sample Date:	**8/18/15**	**8/21/15**	**8/19/15**	**8/21/15**	**8/19/15**	**8/19/15**	**8/18/15**	**8/18/15**
EPA Method 6200 (µg/L)(1)								
Benzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromodichloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Bromoform	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
n-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
sec-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
tert-Butylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Carbon tetrachloride	<0.500	**7.15**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Chloroform	**1.52**	**37.5**	**1.75**	**3.30**	**21.2**	**4.73**	**1.07**	**0.695**
Chloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
2-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
4-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dibromoethane (EDB)	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dibromomethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,4-Dichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Dichlorodifluoromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloroethane	<0.500	<0.500	<0.500	**1.31**	<0.500	<0.500	<0.500	<0.500
1,1-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
cis-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
trans-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1-Dichloropropene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2-Dichloropropane	<0.500	**2.12**	<0.500	**5.92**	<0.500	<0.500	<0.500	<0.500
1,3-Dichloropropane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Isopropylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Methylene chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Methyl tert-butyl ether	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Naphthalene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
n-Propylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Tetrachloroethene	<0.500	**0.775**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Toluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,3-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,1-Trichloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2-Trichloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichloroethene	<0.500	**1.35**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Trichlorofluoromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,3-Trichloropropane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,2,4-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
1,3,5-Trimethylbenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Vinyl chloride	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Xylenes, total	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
EPA Method 8260 SIM (µg/L)								
1,4-Dioxane	<3.00	<3.00	<3.00	**3,520**	<3.00	<3.00	<3.00	<3.00

TABLE 3 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-47**	**RW-1**	**RW-6**	**RW-10**	**FB-1 (4)**	**FB-2 (5)**	**Trip Blank**	**NC 2L Std. (µg/L)**
Sample Date:	**8/19/15**	**8/27/15**	**8/28/15**	**8/27/15**	**8/21/15**	**8/27/15**	**8/28/15**	**---**
EPA Method 6200 (µg/L)(1)								
Benzene	<0.500	**1,320**	<0.500	**331**	<0.500	<0.500	<0.500	1
Bromobenzene	<0.500	<0.500	<0.500	**5.40**	<0.500	<0.500	<0.500	NS
Bromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
Bromodichloromethane	<0.500	**2.09**	<0.500	**61.5**	<0.500	<0.500	<0.500	0.6
Bromoform	<0.500	<0.500	<0.500	**0.905**	<0.500	<0.500	<0.500	4
n-Butylbenzene	<0.500	<0.500	<0.500	**1.12**	<0.500	<0.500	<0.500	70
sec-Butylbenzene	<0.500	<0.500	<0.500	**0.524**	<0.500	<0.500	<0.500	70
tert-Butylbenzene	<0.500	<0.500	<0.500	**0.536**	<0.500	<0.500	<0.500	70
Carbon tetrachloride	<0.500	**22.2**	<0.500	**60.7**	<0.500	<0.500	<0.500	0.3
Chloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	3,000
Chlorobenzene	<0.500	<0.500	<0.500	**40.2**	<0.500	<0.500	<0.500	50
Chloroform	**22.0**	**386**	**75.6**	**14,200**	<0.500	<0.500	<0.500	70
Chloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	3
2-Chlorotoluene	<0.500	<0.500	<0.500	**5.21**	<0.500	<0.500	<0.500	100
4-Chlorotoluene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
Dibromochloromethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.4
1,2-Dibromoethane (EDB)	<0.500	**6.78**	<0.500	**308**	<0.500	<0.500	<0.500	0.02
Dibromomethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
1,2-Dichlorobenzene	<0.500	<0.500	<0.500	**89.7**	<0.500	<0.500	<0.500	20
1,3-Dichlorobenzene	<0.500	<0.500	<0.500	**6.52**	<0.500	<0.500	<0.500	200
1,4-Dichlorobenzene	<0.500	<0.500	<0.500	**11.6**	<0.500	<0.500	<0.500	6
Dichlorodifluoromethane	<0.500	<0.500	<0.500	**1.92**	<0.500	<0.500	<0.500	1,000
1,1-Dichloroethane	<0.500	<0.500	<0.500	**2.61**	<0.500	<0.500	<0.500	6
1,2-Dichloroethane	<0.500	<0.500	<0.500	**90.5**	<0.500	<0.500	<0.500	0.4
1,1-Dichloroethene	<0.500	<0.500	<0.500	**3.67**	<0.500	<0.500	<0.500	350
cis-1,2-Dichloroethene	<0.500	<0.500	<0.500	**1.08**	<0.500	<0.500	<0.500	70
trans-1,2-Dichloroethene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	100
1,1-Dichloropropene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
1,2-Dichloropropane	<0.500	**125**	<0.500	**741**	<0.500	<0.500	<0.500	0.6
1,3-Dichloropropane	<0.500	<0.500	<0.500	**4.38**	<0.500	<0.500	<0.500	NS
Ethylbenzene	<0.500	<0.500	<0.500	**33.9**	<0.500	<0.500	<0.500	600
Isopropylbenzene	<1.00	<1.00	<1.00	**1.56**	<1.00	<1.00	<1.00	70
p-Isopropyltoluene	<0.500	<0.500	<0.500	**1.19**	<0.500	<0.500	<0.500	NS
Methylene chloride	<5.00	**26.4**	<5.00	**1,600**	<5.00	<5.00	<5.00	5
Methyl tert-butyl ether	<0.500	<0.500	<0.500	**1.24**	<0.500	<0.500	<0.500	20
Naphthalene	<5.00	<5.00	<5.00	**9.16**	<5.00	<5.00	<5.00	6
n-Propylbenzene	<0.500	<0.500	<0.500	**3.02**	<0.500	<0.500	<0.500	70
1,1,1,2-Tetrachloroethane	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
1,1,2,2-Tetrachloroethane	<0.500	<0.500	<0.500	**7.61**	<0.500	<0.500	<0.500	0.2
Tetrachloroethene	<0.500	**0.742**	<0.500	**73.1**	<0.500	<0.500	<0.500	0.7
Toluene	<0.500	<0.500	<0.500	**32.5**	<0.500	<0.500	<0.500	600
1,2,3-Trichlorobenzene	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	NS
1,2,4-Trichlorobenzene	<0.500	<0.500	<0.500	**1.21**	<0.500	<0.500	<0.500	70
1,1,1-Trichloroethane	<0.500	<0.500	<0.500	**0.743**	<0.500	<0.500	<0.500	200
1,1,2-Trichloroethane	<0.500	**2.27**	<0.500	**44.9**	<0.500	<0.500	<0.500	NS
Trichloroethene	<0.500	**31.7**	<0.500	**190**	<0.500	<0.500	<0.500	3
Trichlorofluoromethane	<0.500	<0.500	<0.500	**1.93**	<0.500	<0.500	<0.500	2,000
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.500	**0.543**	<0.500	**0.736**	<0.500	<0.500	<0.500	200,000
1,2,3-Trichloropropane	<0.500	**2.45**	<0.500	**18.8**	<0.500	<0.500	<0.500	0.005
1,2,4-Trimethylbenzene	<0.500	<0.500	<0.500	**28.7**	<0.500	<0.500	<0.500	400
1,3,5-Trimethylbenzene	<0.500	<0.500	<0.500	**18.0**	<0.500	<0.500	<0.500	400
Vinyl chloride	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.03
Xylenes, total	<1.00	<1.00	<1.00	**159**	<1.00	<1.00	<1.00	500
EPA Method 8260 SIM (µg/L)								
1,4-Dioxane	<3.00	**19.6**	**282**	**826**	<3.00	<3.00	<3.00	3

TABLE 3 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
VOLATILE ORGANIC COMPOUNDS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015
North Carolina State University
Lot 86 Site
Raleigh, North Carolina

(1) Method compounds detected in one or more samples are listed.
(2) Duplicate sample; labeled "MW-61" in chain of custody and laboratory report.
(3) Duplicate sample; labeled "MW-62" in chain of custody and laboratory report.
(4) Field rinseate blank; labeled "MW-63" in chain of custody and laboratory report.
(5) Field rinseate blank; labeled "MW-64" in chain of custody and laboratory report.
Bold type denotes detected compound.
Shaded type denotes concentration above North Carolina 2L standard.

TABLE 4
SUMMARIZED RESULTS OF LABORATORY AND FIELD ANALYSES
METALS AND FIELD PARAMETERS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-3**	**MW-8**	**MW-11I**	**MW-12S**	**MW-12I**	**MW-12I (1)**	**MW-12D**	**MW-13D**
Sample Date:	**8/27/15**	**8/27/15**	**8/20/15**	**8/27/15**	**8/26/15**	**8/26/15**	**8/20/15**	**8/25/15**
LABORATORY ANALYSES								
EPA Method 6010 (µg/L)								
Arsenic	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Barium	**190**	**20.9**	**26.7**	**574**	**33.4**	**40.5**	**21.6**	**13.0**
Cadmium	<1.00	<1.00	<1.00	**5.00**	<1.00	<1.00	<1.00	<1.00
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	**8.00**	<5.00
Lead	<5.00	<5.00	<5.00	**5.40**	<5.00	**5.80**	<5.00	**6.80**
Manganese	**2,360**	**35.9**	**209**	**31,000**	**98.2**	**103**	**115**	**56.2**
Selenium	<10.0	<10.0	<10.0	**13.3**	<10.0	<10.0	<10.0	<10.0
EPA Method 7470 (µg/L)								
Mercury	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
FIELD ANALYSES								
pH	5.5	5.3	6.6	5.0	5.9	5.9	8.0	6.4
Temperature (^{o}C)	18.5	17.6	20.5	18.2	19.4	19.4	18.7	20.4
Specific Cond. (umhos/cm)	128	30	90	228	47	47	160	62
Turbidity (NTU)	11.99	12.47	1.27	5.85	36.76	36.76	7.17	9.04

Sample I.D.:	**MW-16S**	**MW-16I**	**MW-16D**	**MW-17S**	**MW-17I**	**MW-17D**	**MW-27**	**MW-34DR**
Sample Date:	**8/25/15**	**8/25/15**	**8/21/15**	**8/26/15**	**8/25/15**	**8/25/15**	**8/26/15**	**8/18/15**
LABORATORY ANALYSES								
EPA Method 6010 (µg/L)								
Arsenic	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Barium	**133**	**23.9**	**25.1**	**44.9**	**16.4**	<10.0	**17.4**	**30.2**
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	<5.00	**5.60**	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Lead	**13.7**	**5.50**	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Manganese	**9,630**	**190**	<15.0	**197**	**149**	<15.0	**54.0**	<15.0
Selenium	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EPA Method 7470 (µg/L)								
Mercury	**0.494**	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
FIELD ANALYSES								
pH	6.5	6.3	9.7	5.0	5.4	6.1	5.2	6.4
Temperature (^{o}C)	19.2	21.0	18.4	18.4	20.6	19.5	19.0	22.5
Specific Cond. (umhos/cm)	210	92	136	40	26	47	26	53
Turbidity (NTU)	41.86	23.56	3.47	25.67	10.25	0.00	22.53	28.04

TABLE 4 (continued)
SUMMARIZED RESULTS OF LABORATORY AND FIELD ANALYSES
METALS AND FIELD PARAMETERS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-35S**	**MW-35D**	**MW-36S**	**MW-36D**	**MW-36D (2)**	**MW-37**	**MW-38**	**MW-41S**
Sample Date:	**8/21/15**	**8/20/15**	**8/25/15**	**8/21/15**	**8/21/15**	**8/27/15**	**8/19/15**	**8/18/15**
LABORATORY ANALYSES								
EPA Method 6010 (µg/L)								
Arsenic	<10.0	<10.0	<10.0	**31.2**	**33.0**	<10.0	<10.0	<10.0
Barium	**36.1**	<10.0	**110**	<10.0	<10.0	**681**	**22.0**	**52.6**
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	**10.2**	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	**12.9**
Lead	<5.00	<5.00	<5.00	<5.00	<5.00	**6.60**	<5.00	<5.00
Manganese	**45.9**	<15.0	**3,220**	<15.0	<15.0	**47,300**	**64.6**	**115**
Selenium	<10.0	<10.0	<10.0	<10.0	<10.0	**20.6**	<10.0	<10.0
EPA Method 7470 (µg/L)								
Mercury	<0.200	<0.200	**0.415**	<0.200	<0.200	<0.200	<0.200	<0.200
FIELD ANALYSES								
pH	6.2	6.6	5.6	6.9	6.9	6.0	8.1	6.0
Temperature (^{o}C)	18.3	20.2	19.3	20.6	20.6	18.9	20.9	26.6
Specific Cond. (umhos/cm)	25	78	49	102	102	356	156	160
Turbidity (NTU)	30.82	0.30	5.63	0.55	0.55	16.66	4.76	45.68

Sample I.D.:	**MW-41I**	**MW-41D**	**MW-42S**	**MW-42I**	**MW-43S**	**MW-43D**	**MW-45R**	**MW-46**
Sample Date:	**8/18/15**	**8/21/15**	**8/18/15**	**8/21/15**	**8/19/15**	**8/19/15**	**8/18/15**	**8/18/15**
LABORATORY ANALYSES								
EPA Method 6010 (µg/L)								
Arsenic	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Barium	**30.6**	**34.5**	**19.4**	**22.5**	**27.2**	**13.4**	**14.5**	**27.4**
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	**5.20**	**6.50**	**7.70**	<5.00	**33.1**	<5.00	**5.50**	**16.8**
Lead	<5.00	**5.80**	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Manganese	<15.0	**224**	**61.7**	**352**	**36.4**	<15.0	**102**	**121**
Selenium	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EPA Method 7470 (µg/L)								
Mercury	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
FIELD ANALYSES								
pH	6.0	6.3	6.0	6.8	5.4	5.8	5.1	5.7
Temperature (^{o}C)	25.3	21.9	29.3	21.2	22.0	19.6	25.4	25.7
Specific Cond. (umhos/cm)	38	48	83	113	28	41	34	30
d Turbidity (NTU)	5.19	29.62	6.03	2.53	10.84	4.30	14.00	13.69

TABLE 4 (continued)
SUMMARIZED RESULTS OF LABORATORY AND FIELD ANALYSES
METALS AND FIELD PARAMETERS
GROUNDWATER SAMPLES COLLECTED AUGUST 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-47**	**RW-1**	**RW-6**	**RW-10**	**FB-1 (3)**	**FB-2 (4)**	**NC 2L Standard (µg/L)**
Sample Date:	**8/19/15**	**8/27/15**	**8/28/15**	**8/27/15**	**8/21/15**	**8/27/15**	**---**
LABORATORY ANALYSES							
EPA Method 6010 (µg/L)							
Arsenic	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10
Barium	**27.7**	**32.3**	**34.1**	**53.8**	<10.0	<5.00	700
Cadmium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2
Chromium	<5.00	<5.00	<5.00	**5.00**	<5.00	<5.00	10
Lead	<5.00	<5.00	<5.00	**6.90**	<5.00	<5.00	15
Manganese	**30.9**	**60.1**	**824**	**1,810**	<15.0	<15.0	50
Selenium	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	20
EPA Method 7470 (µg/L)							
Mercury	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	1
FIELD ANALYSES							
pH	6.2	5.4	6.5	6.1	NA	NS	NS
Temperature (^{o}C)	20.5	28.6	22.9	20.1	NA	NS	NS
Specific Cond. (umhos/cm)	48	31	121	107	NA	NS	NS
Turbidity (NTU)	37.84	NA	NA	NA	NA	NS	NS

(1) Duplicate sample; labeled "MW-61" in chain of custody and laboratory report.
(2) Duplicate sample; labeled "MW-62" in chain of custody and laboratory report.
(3) Field rinseate blank; labeled "MW-63" in chain of custody and laboratory report.
(4) Field rinseate blank; labeled "MW-64" in chain of custody and laboratory report.
NA = Not analyzed. NS = No North Carolina 2L standard exists.
Bold type denotes detected compound.
Shaded type denotes concentration above North Carolina 2L standard.

TABLE 5
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
GROSS BETA AND TRITIUM
GROUNDWATER SAMPLES COLLECTED AUGUST 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**MW-3**	**MW-8**	**MW-11I**	**MW-12S**	**MW-12I**	**MW-12I (1)**	**MW-12D**	**MW-13D**	**MW-16I**
Sample Date:	**8/27/15**	**8/27/15**	**8/20/15**	**8/27/15**	**8/26/15**	**8/26/15**	**8/20/15**	**8/25/15**	**8/25/15**
Method 900.0 (pCi/L)									
Gross Beta	**1.94**	**3.22**	**3.08**	**9.28**	**5.64**	**6.56**	**3.78**	**3.84**	**5.65**
Count uncertainty (2σ+/-)	0.501	0.536	0.493	0.822	0.672	0.724	0.555	0.565	0.618
Total uncertainty (2σ+/-)	0.537	0.625	0.582	1.24	0.878	0.977	0.671	0.684	0.837
Method 906.0 (pCi/L)									
Tritium	**101 U**	**-41.0 U**	**842**	**214 U**	**4,880**	**4,610**	**-71.6 U**	**23.9 U**	**9,030**
Count uncertainty (2σ+/-)	237	209	341	242	584	566	238	218	766
Total uncertainty (2σ+/-)	237	209	349	242	725	696	238	218	1,100

Sample I.D.:	**MW-16D**	**MW-17I**	**MW-17D**	**MW-27**	**MW-34DR**	**MW-35S**	**MW-35D**	**MW-36S**	**MW-36D**
Sample Date:	**8/21/15**	**8/25/15**	**8/25/15**	**8/26/15**	**8/18/15**	**8/21/15**	**8/20/15**	**8/25/15**	**8/21/15**
Method 900.0 (pCi/L)									
Gross Beta	**3.92**	**0.973**	**0.827**	**9.85**	**1.10**	**4.65**	**1.31**	**3.66**	**1.85**
Count uncertainty (2σ+/-)	0.558	0.398	0.367	0.849	0.401	0.905	0.393	0.538	0.445
Total uncertainty (2σ+/-)	0.682	0.410	0.376	1.30	0.416	1.02	0.414	0.651	0.482
Method 906.0 (pCi/L)									
Tritium	**230 U**	**-41.9 U**	**-28.8 U**	**34.7 U**	**-168 U**	**-51.8 U**	**40.5 U**	**-117 U**	**-70.7 U**
Count uncertainty (2σ+/-)	271	211	215	225	224	235	248	231	236
Total uncertainty (2σ+/-)	271	211	215	225	225	235	248	231	236

Sample I.D.:	**MW-36D (2)**	**MW-37**	**MW-38**	**MW-41S**	**MW-41I**	**MW-41D**	**MW-42S**	**MW-42I**	**MW-43S**
Sample Date:	**8/21/15**	**8/27/15**	**8/19/15**	**8/18/15**	**8/18/15**	**8/21/15**	**8/18/15**	**8/21/15**	**8/19/15**
Method 900.0 (pCi/L)									
Gross Beta	**1.96**	**12.7**	**2.90**	**6.58**	**0.298 U**	**2.30**	**1.81**	**2.21**	**1.50**
Count uncertainty (2σ+/-)	0.484	0.979	0.514	0.738	0.320	0.481	0.435	0.443	0.385
Total uncertainty (2σ+/-)	0.522	1.60	0.590	0.989	0.322	0.533	0.471	0.495	0.413
Method 906.0 (pCi/L)									
Tritium	**58.6 U**	**69.4 U**	**76.6 U**	**-102 U**	**90.1 U**	**135 U**	**0.000 U**	**306 U**	**-104 U**
Count uncertainty (2σ+/-)	254	226	257	232	258	264	247	287	225
Total uncertainty (2σ+/-)	254	226	257	233	258	264	247	288	225

Sample I.D.:	**MW-43D**	**MW-45R**	**MW-46**	**MW-47**	**RW-1**	**RW-2**	**RW-3**	**RW-4**	**RW-5**
Sample Date:	**8/19/15**	**8/18/15**	**8/18/15**	**8/19/15**	**8/27/15**	**8/31/15**	**8/27/15**	**8/31/15**	**8/27/15**
Method 900.0 (pCi/L)									
Gross Beta	**1.09**	**0.251 U**	**1.66**	**2.39**	**0.348 U**	**2.11**	**2.11**	**2.77**	**1.80**
Count uncertainty (2σ+/-)	0.389	0.296	0.456	0.483	0.295	0.422	0.436	0.485	0.410
Total uncertainty (2σ+/-)	0.403	0.297	0.485	0.539	0.297	0.472	0.485	0.559	0.448
Method 906.0 (pCi/L)									
Tritium	**-87.4 U**	**22.5 U**	**-64.0 U**	**-9.01 U**	**6.76 U**	**36.0 U**	**1,300**	**2,860**	**6,690**
Count uncertainty (2σ+/-)	236	251	243	245	215	259	406	519	677
Total uncertainty (2σ+/-)	236	251	243	245	215	259	422	577	897

TABLE 5 (continued)
SUMMARIZED RESULTS OF LABORATORY ANALYSIS
GROSS BETA AND TRITIUM
GROUNDWATER SAMPLES COLLECTED AUGUST 2015

North Carolina State University
Lot 86 Site
Raleigh, North Carolina

Sample I.D.:	**RW-6**	**RW-7**	**RW-8**	**RW-9**	**RW-10**	**RW-11**	**RW-12**	**RW-13**	
Sample Date:	**8/28/15**	**8/27/15**	**8/27/15**	**8/27/15**	**8/27/15**	**8/27/15**	**8/27/15**	**8/31/15**	
Method 900.0 (pCi/L)									
Gross Beta	**1.03**	**1.21**	**1.14**	**1.18**	**2.69**	**1.62**	**2.07**	**7.25**	
Count uncertainty (2σ+/-)	0.381	0.368	0.390	0.386	0.484	0.422	0.439	0.855	
Total uncertainty (2σ+/-)	0.394	0.388	0.406	0.403	0.554	0.452	0.485	1.12	
Method 906.0 (pCi/L)									
Tritium	**132 U**	**173 U**	**-49.5 U**	**-89.6 U**	**3,310**	**1,850**	**12,300**	**-68.0 U**	
Count uncertainty (2σ+/-)	234	238	209	203	498	392	893	174	
Total uncertainty (2σ+/-)	234	238	209	203	577	424	1,400	174	

(1) Duplicate sample; labeled "MW-62" in chain of custody and laboratory report.
(2) Duplicate sample; labeled "MW-62" in chain of custody and laboratory report.
NA = Not analyzed.
U = The analyte was analyzed for but not detected.

FIELD SAMPLING FORMS

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-3	Well Type: Monitoring
Well Diameter (in.): 3	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 445.39	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 45.52	Depth to Bottom (ft.): 50.15
Water Column (ft.): 4.63 x ___0.37__ gal/ft. (conversion factor)	= _____1.7 gal (1 well volume)
Three Well Volumes = 5.1 gal	
Purge Method: bailer	Purge Date: 8/26/2015
Purge Volume (gal.): 1.75 dry	Purge Time Start: 944 Stop: 949

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.4						
Temp. (^oC)	18.6						
Specific Conductance (umohs/cm)	129						
Turbidity (NTU)	43.18						
Sample Characteristics	clear						

Sample Date: 8/27/2015	Sample Method: bailer
Sample Time: 845	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.5	Oakton PCTestr 35
Temp (^{o} C)	18.5	Oakton PCTestr 35
Specific Conductance (umohs/cm)	128	Oakton PCTestr 35
Turbidity (NTU)	11.99	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Dry after 1.75 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-8	Well Type: Monitoring
Well Diameter (in.): 3	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 447.85	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 49.92	Depth to Bottom (ft.): 54.47
Water Column (ft.): 4.65 x ___0.37__ gal/ft. (conversion factor) = _____1.7 gal (1 well volume)	
Three Well Volumes = 5.1 gal	
Purge Method: bailer	Purge Date: 8/26/2015
Purge Volume (gal.): 1.75 dry	Purge Time Start: 920 Stop: 926

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.4						
Temp. (^oC)	18.2						
Specific Conductance (umohs/cm)	29						
Turbidity (NTU)	228						
Sample Characteristics	cloudy						

Sample Date: 8/27/2015	Sample Method: bailer
Sample Time: 920	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.3	Oakton PCTestr 35
Temp (^{o} C)	17.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	30	Oakton PCTestr 35
Turbidity (NTU)	12.47	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Dry after 1.75 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-11I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 434.29	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 35.83	Depth to Bottom (ft.): 67.85
Water Column (ft.): 32.02 x ___0.16__ gal/ft. = _____5.1 gal	
conversion factor	1 well volume
Three Well Volumes = 15.3 gal	
Purge Method: pump	Purge Date: 8/20/2015
Purge Volume (gal.): 16.0	Purge Time Start: 1420 Stop: 1455

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.6	6.6	6.6				
Temp. (^oC)	20.9	20.2	20.5				
Specific Conductance (umohs/cm)	104	91	90				
Turbidity (NTU)	25.15	5.22	1.27				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/20/2015	Sample Method: pump
Sample Time: 1455	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.6	Oakton PCTestr 35
Temp (^{o} C)	20.5	Oakton PCTestr 35
Specific Conductance (umohs/cm)	90	Oakton PCTestr 35
Turbidity (NTU)	1.27	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks:

Pump depth = 60 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-12S	Well Type: Monitoring
Well Diameter (in.): 4	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 427.24	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 31.82	Depth to Bottom (ft.): 34.33
Water Column (ft.): 2.51 x ___0.65__ gal/ft. (conversion factor)	= _____1.6 gal (1 well volume)
Three Well Volumes = 4.8 gal	
Purge Method: bailer	Purge Date: 8/26/2015
Purge Volume (gal.): 1.75 dry	Purge Time Start: 1112 Stop: 1118

Well Volumes Removed	1	2	3	4	5	6	7
pH	4.8						
Temp. (^oC)	18.0						
Specific Conductance (umohs/cm)	195						
Turbidity (NTU)	63						
Sample Characteristics	clear						

Sample Date: 8/27/2015	Sample Method: bailer
Sample Time: 1210	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.0	Oakton PCTestr 35
Temp (^{o} C)	18.2	Oakton PCTestr 35
Specific Conductance (umohs/cm)	228	Oakton PCTestr 35
Turbidity (NTU)	5.85	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Dry after 1.75 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-12I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 430.70	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 34.37	Depth to Bottom (ft.): 72.90
Water Column (ft.): 38.53 x ___0.16__ gal/ft. (conversion factor) = _____6.2 gal (1 well volume)	
Three Well Volumes = 18.6 gal	
Purge Method: pump	Purge Date: 8/26/2015
Purge Volume (gal.): 19.0	Purge Time Start: 1310 Stop: 1400

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.9	5.9	5.9				
Temp. (^oC)	19.8	19.3	19.4				
Specific Conductance (umohs/cm)	52	49	47				
Turbidity (NTU)	44.44	35.59	36.76				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/26/2015	Sample Method: pump
Sample Time: 1400	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.9	Oakton PCTestr 35
Temp (^{o} C)	19.4	Oakton PCTestr 35
Specific Conductance (umohs/cm)	47	Oakton PCTestr 35
Turbidity (NTU)	36.76	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks: Collected duplicate sample, labeled as "MW-61".
Pump depth = 70 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-12D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 427.45	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 29.57	Depth to Bottom (ft.): 107
Water Column (ft.): 77.43 x ___0.16__ gal/ft. (conversion factor)	= 12.4 gal (1 well volume)
Three Well Volumes = 37.2 gal	
Purge Method: pump	Purge Date: 8/19/2015
Purge Volume (gal.): 16.25 dry	Purge Time Start: 1513 Stop: 1602

Well Volumes Removed	1	2	3	4	5	6	7
pH	7.1						
Temp. (^oC)	23.0						
Specific Conductance (umohs/cm)	169						
Turbidity (NTU)	5.08						
Sample Characteristics	clear						

Sample Date: 8/20/2015	Sample Method: bailer
Sample Time: 855	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	8.0	Oakton PCTestr 35
Temp (^{o} C)	18.7	Oakton PCTestr 35
Specific Conductance (umohs/cm)	160	Oakton PCTestr 35
Turbidity (NTU)	7.17	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks:

Dry after 16.25 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-13D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 423.43	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 29.76	Depth to Bottom (ft.): 100
Water Column (ft.): x ___0.16__ gal/ft. (conversion factor) = _____ gal (1 well volume)	
Three Well Volumes = gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/25/2015	Sample Method: bailer
Sample Time: 1230	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.4	Oakton PCTestr 35
Temp (^{o} C)	20.4	Oakton PCTestr 35
Specific Conductance (umohs/cm)	62	Oakton PCTestr 35
Turbidity (NTU)	9.04	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 80s

Remarks: Casing bent at 8 feet BGS, unable to lower pump down well.
Grabbed sample with 1" bailer without purging.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-16S	Well Type: Monitoring
Well Diameter (in.): 3	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 427.94	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 31.18	Depth to Bottom (ft.): 32.84
Water Column (ft.): 1.66 x ___0.37__ gal/ft. (conversion factor)	= _____0.6 gal (1 well volume)
Three Well Volumes = 1.8 gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/25/2015	Sample Method: bailer
Sample Time: 1325	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS

Field Measurements of Sample:

pH	6.5	Oakton PCTestr 35
Temp (^{o} C)	19.2	Oakton PCTestr 35
Specific Conductance (umohs/cm)	210	Oakton PCTestr 35
Turbidity (NTU)	41.86	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 70s

Remarks: Obstruction in bottom of well. Grabbed sample with 1" bailer without purging.
Not enough water to collect Tritium or Gross Beta samples.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-16I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 432.14	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 30.34	Depth to Bottom (ft.): 64.67
Water Column (ft.): 34.33 x ___0.16__ gal/ft. (conversion factor) = _____5.5 gal (1 well volume)	
Three Well Volumes = 16.5 gal	
Purge Method: pump	Purge Date: 8/25/2015
Purge Volume (gal.): 16.5	Purge Time Start: 1020 Stop: 1055

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.3	6.3	6.3				
Temp. (^oC)	20.7	21.2	21.0				
Specific Conductance (umohs/cm)	98	94	92				
Turbidity (NTU)	45.51	32.86	23.56				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/25/2015	Sample Method: pump
Sample Time: 1055	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.3	Oakton PCTestr 35
Temp (^{o} C)	21.0	Oakton PCTestr 35
Specific Conductance (umohs/cm)	92	Oakton PCTestr 35
Turbidity (NTU)	23.56	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 70s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-16D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 428.98	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 31.51	Depth to Bottom (ft.): 90
Water Column (ft.): 58.49 x ___0.16__ gal/ft. (conversion factor) = _____9.4 gal (1 well volume)	
Three Well Volumes = 28.2 gal	
Purge Method: pump	Purge Date: 8/20/2015
Purge Volume (gal.): 17.0 dry	Purge Time Start: 1527 Stop: 1610

Well Volumes Removed	1	2	3	4	5	6	7
pH	11.0						
Temp. (^oC)	21.8						
Specific Conductance (umohs/cm)	231						
Turbidity (NTU)	23.44						
Sample Characteristics	clear						

Sample Date: 8/21/2015	Sample Method: bailer
Sample Time: 850	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	9.7	Oakton PCTestr 35
Temp (^{o} C)	18.4	Oakton PCTestr 35
Specific Conductance (umohs/cm)	136	Oakton PCTestr 35
Turbidity (NTU)	3.47	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 80s

Remarks: Pump depth = 85 feet.
Dry after 17.0 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-17S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 425.09	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 29.81	Depth to Bottom (ft.): 31
Water Column (ft.): 1.19 x ___0.16__ gal/ft. (conversion factor)	= _____0.2 gal (1 well volume)
Three Well Volumes = 0.6 gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/26/2015	Sample Method: bailer
Sample Time: 1030	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS

Field Measurements of Sample:

pH	5.0	Oakton PCTestr 35
Temp (^{o} C)	18.4	Oakton PCTestr 35
Specific Conductance (umohs/cm)	40	Oakton PCTestr 35
Turbidity (NTU)	25.67	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks: Sampled without purging due to small water column.
Not enough water to collect Tritium & Gross Beta samples.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-17I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 427.74	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 32.46	Depth to Bottom (ft.): 63.39
Water Column (ft.): 30.93 x ___0.16__ gal/ft. (conversion factor) = _____5.0 gal (1 well volume)	
Three Well Volumes = 15.0 gal	
Purge Method: pump	Purge Date: 8/25/2015
Purge Volume (gal.): 15.0	Purge Time Start: 1504 Stop: 1537

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.5	5.4	5.4				
Temp. (^oC)	21.4	20.3	20.6				
Specific Conductance (umohs/cm)	31	28	26				
Turbidity (NTU)	37.64	22.42	10.25				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/25/2015	Sample Method: pump
Sample Time: 1537	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.4	Oakton PCTestr 35
Temp (^{o} C)	20.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	26	Oakton PCTestr 35
Turbidity (NTU)	10.25	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 80s

Remarks:

Pump depth = 60 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-17D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 425.44	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 30.21	Depth to Bottom (ft.): 105
Water Column (ft.): 74.79 x ___0.16__ gal/ft. (conversion factor)	= 12.0 gal (1 well volume)
Three Well Volumes = 36.0 gal	
Purge Method: pump	Purge Date: 8/25/2015
Purge Volume (gal.): 36.0	Purge Time Start: 1400 Stop: 1455

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.1	6.1	6.1				
Temp. (^oC)	20.4	19.5	19.5				
Specific Conductance (umohs/cm)	49	48	47.0				
Turbidity (NTU)	1.61	0.25	0.00				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/28/2015	Sample Method: pump
Sample Time: 1455	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.1	Oakton PCTestr 35
Temp (^{o} C)	19.5	Oakton PCTestr 35
Specific Conductance (umohs/cm)	47	Oakton PCTestr 35
Turbidity (NTU)	0.00	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks:

Pump depth = 100 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-27	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 448.26	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 43.18	Depth to Bottom (ft.):
Water Column (ft.): 2.76 x ___0.16__ gal/ft. (conversion factor)	= _____0.4 gal (1 well volume)
Three Well Volumes = 1.2 gal	
Purge Method: bailer	Purge Date: 8/25/2015
Purge Volume (gal.): 0.4 dry	Purge Time Start: 925 Stop: 927

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.40						
Temp. (^oC)	19.2						
Specific Conductance (umohs/cm)	29						
Turbidity (NTU)	215						
Sample Characteristics	cloudy						

Sample Date: 8/26/2015	Sample Method: bailer
Sample Time: 845	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.2	Oakton PCTestr 35
Temp (^{o} C)	19.0	Oakton PCTestr 35
Specific Conductance (umohs/cm)	26	Oakton PCTestr 35
Turbidity (NTU)	22.53	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 70s

Remarks:

Dry after 0.4 gallons purged. Collected sample with bailer after well recharged.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-34DR	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 454.58	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 42.47	Depth to Bottom (ft.): 101
Water Column (ft.): 58.53 x ___0.16__ gal/ft. (conversion factor) = _____9.4 gal (1 well volume)	
Three Well Volumes = 28.2 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 29.0	Purge Time Start: 856 Stop: 1015

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.9	6.4	6.4				
Temp. (^oC)	22.0	22.3	22.5				
Specific Conductance (umohs/cm)	57	52	53				
Turbidity (NTU)	32.30	33.88	28.04				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1015	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.4	Oakton PCTestr 35
Temp (^{o} C)	22.5	Oakton PCTestr 35
Specific Conductance (umohs/cm)	53	Oakton PCTestr 35
Turbidity (NTU)	28.04	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Pump depth = 90 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-35S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 443.12	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 49.02	Depth to Bottom (ft.): 52.04
Water Column (ft.): 3.02 x ___0.16__ gal/ft. (conversion factor)	= _____0.5 gal (1 well volume)
Three Well Volumes = 1.5 gal	
Purge Method: bailer	Purge Date: 8/20/2015
Purge Volume (gal.): 1.5	Purge Time Start: 952 Stop: 959

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.0	5.8	5.4				
Temp. (^oC)	18.1	17.7	17.7				
Specific Conductance (umohs/cm)	27	24	21				
Turbidity (NTU)	839	>1,000	>1,000				
Sample Characteristics	turbid	turbid	turbid				

Sample Date: 8/21/2015	Sample Method: bailer
Sample Time: 915	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.2	Oakton PCTestr 35
Temp (^{o} C)	18.3	Oakton PCTestr 35
Specific Conductance (umohs/cm)	25	Oakton PCTestr 35
Turbidity (NTU)	30.82	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Suspended sampling until next day due to >50 NTU turbidity measurement.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-35D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 444.69	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 47.78	Depth to Bottom (ft.): 147
Water Column (ft.): 99.22 x ___0.16__ gal/ft. = _____15.9 gal	
conversion factor	1 well volume
Three Well Volumes = 47.7 gal	
Purge Method: pump	Purge Date: 8/20/2015
Purge Volume (gal.): 50.0	Purge Time Start: 1031 Stop: 1220

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.8	6.6	6.6				
Temp. (^oC)	19.7	20.0	20.2				
Specific Conductance (umohs/cm)	109	87	78.0				
Turbidity (NTU)	6.56	1.43	0.30				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/20/2015	Sample Method: pump
Sample Time: 1220	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.6	Oakton PCTestr 35
Temp (^{o} C)	20.2	Oakton PCTestr 35
Specific Conductance (umohs/cm)	78	Oakton PCTestr 35
Turbidity (NTU)	0.30	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Pump depth = 140 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-36S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 442.71	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 44.87	Depth to Bottom (ft.): 52.40
Water Column (ft.): 7.53 x ___0.16__ gal/ft. (conversion factor) = _____1.2 gal (1 well volume)	
Three Well Volumes = 3.6 gal	
Purge Method: pump	Purge Date: 8/21/2015
Purge Volume (gal.): 6.0	Purge Time Start: 1533 Stop: 1603

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.5	5.5	5.5	5.5	5.5		
Temp. (^oC)	24.7	21.0	23.8	22.8	22.4		
Specific Conductance (umohs/cm)	54	51	46	46	45		
Turbidity (NTU)	568	880	251	97	126		
Sample Characteristics	cloudy	turbid	cloudy	clear	clear		

Sample Date: 8/25/2015	Sample Method: bailer
Sample Time: 900	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.6	Oakton PCTestr 35
Temp (^{o} C)	19.3	Oakton PCTestr 35
Specific Conductance (umohs/cm)	49	Oakton PCTestr 35
Turbidity (NTU)	5.63	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 80s

Remarks: Pump depth = 50 feet.
Suspended sampling until next day due to >50 NTU turbidity measurement.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-36D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 442.87	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 45.38	Depth to Bottom (ft.): 114.3
Water Column (ft.): 68.92 x ___0.16__ gal/ft. (conversion factor) = _____11.0 gal (1 well volume)	
Three Well Volumes = 33.0 gal	
Purge Method: pump	Purge Date: 8/21/2015
Purge Volume (gal.): 33.0	Purge Time Start: 1348 Stop: 1458

Well Volumes Removed	1	2	3	4	5	6	7
pH	7.0	6.9	6.9				
Temp. (^oC)	20.9	21.0	20.6				
Specific Conductance (umohs/cm)	110	105	102.0				
Turbidity (NTU)	2.65	0.92	0.55				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/21/2015	Sample Method: pump
Sample Time: 1458	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.9	Oakton PCTestr 35
Temp (^{o} C)	20.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	102	Oakton PCTestr 35
Turbidity (NTU)	0.55	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks: Pump depth = 110 feet.
Collected duplicate sample, labeled as "MW-62".

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-37	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 440.88	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 44.28	Depth to Bottom (ft.): 48.13
Water Column (ft.): 3.85 x ___0.16__ gal/ft. (conversion factor)	= _____0.6 gal (1 well volume)
Three Well Volumes = 1.8 gal	
Purge Method: bailer	Purge Date: 8/26/2015
Purge Volume (gal.): 2.0	Purge Time Start: 1600 Stop: 1610

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.3	6.3	6.3				
Temp. (^oC)	19.3	18.7	18.5				
Specific Conductance (umohs/cm)	272	292	308				
Turbidity (NTU)	46.08	151	454				
Sample Characteristics	clear	clear	cloudy				

Sample Date: 8/27/2015	Sample Method: bailer
Sample Time: 935	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.0	Oakton PCTestr 35
Temp (^{o} C)	18.9	Oakton PCTestr 35
Specific Conductance (umohs/cm)	356	Oakton PCTestr 35
Turbidity (NTU)	16.66	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 80s

Remarks:

Suspened sampling until next day due to >50 NTU turbidity measurement.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-38	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 445.38	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 47.48	Depth to Bottom (ft.): 107
Water Column (ft.): 59.52 x ___0.16__ gal/ft. (conversion factor)	= 9.50 gal (1 well volume)
Three Well Volumes = 28.5 gal	
Purge Method: pump	Purge Date: 8/19/2015
Purge Volume (gal.): 30.0	Purge Time Start: 856 Stop: 1016

Well Volumes Removed	1	2	3	4	5	6	7
pH	7.9	8.1	8.1				
Temp. (^oC)	20.5	20.5	20.9				
Specific Conductance (umohs/cm)	155.0	155	156.0				
Turbidity (NTU)	1.64	1.81	4.76				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/19/2015	Sample Method: pump
Sample Time: 1016	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	8.1	Oakton PCTestr 35
Temp (^{o} C)	20.9	Oakton PCTestr 35
Specific Conductance (umohs/cm)	156	Oakton PCTestr 35
Turbidity (NTU)	4.76	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Pump depth = 100 feet

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-41S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 421.17	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 26.82	Depth to Bottom (ft.): 33.70
Water Column (ft.): 6.88 x ___0.16__ gal/ft. (conversion factor) = _____1.10 gal (1 well volume)	
Three Well Volumes = 3.3 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 3.5	Purge Time Start: 1404 Stop: 1425

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.3	6.0	6.0				
Temp. (^oC)	24.8	26.8	26.6				
Specific Conductance (umohs/cm)	174	164	160				
Turbidity (NTU)	263	116	45.68				
Sample Characteristics	cloudy	cloudy	cloudy				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1425	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.0	Oakton PCTestr 35
Temp (^{o} C)	26.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	160	Oakton PCTestr 35
Turbidity (NTU)	45.68	HI Model 98703 Turbidimeter
Sample Characteristics	cloudy	

Weather Conditions: cloudy, 80s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-41I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 421.57	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 26.82	Depth to Bottom (ft.): 60.50
Water Column (ft.): 33.68 x ___0.16__ gal/ft. (conversion factor) = _____5.40 gal (1 well volume)	
Three Well Volumes = 16.2 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 16.5	Purge Time Start: 1316 Stop: 1358

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.1	6.0	6.0				
Temp. (^oC)	23.3	25.3	25.3				
Specific Conductance (umohs/cm)	57	40	38				
Turbidity (NTU)	28.07	2.88	5.19				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1358	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.0	Oakton PCTestr 35
Temp (^{o} C)	25.3	Oakton PCTestr 35
Specific Conductance (umohs/cm)	38	Oakton PCTestr 35
Turbidity (NTU)	5.19	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks:

Pump depth = 50 feet

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-41D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 420.67	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 26.03	Depth to Bottom (ft.): 87.95
Water Column (ft.): 61.92 x ___0.16__ gal/ft. (conversion factor) = _____9.90 gal (1 well volume)	
Three Well Volumes = 29.7 gal	
Purge Method: pump	Purge Date: 8/21/2015
Purge Volume (gal.): 30.0	Purge Time Start: 1003 Stop: 1100

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.3	6.3	6.3				
Temp. (^oC)	22.1	21.6	21.9				
Specific Conductance (umohs/cm)	50	50	48				
Turbidity (NTU)	25.37	27.81	29.62				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/21/2015	Sample Method: pump
Sample Time: 1100	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.3	Oakton PCTestr 35
Temp (^{o} C)	21.9	Oakton PCTestr 35
Specific Conductance (umohs/cm)	48	Oakton PCTestr 35
Turbidity (NTU)	29.62	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: sunny, 70s

Remarks:

Pump depth = 85 feet

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-42S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 427.25	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 28.78	Depth to Bottom (ft.): 34.90
Water Column (ft.): 6.12 x ___0.16__ gal/ft. (conversion factor)	= _____1.0 gal (1 well volume)
Three Well Volumes = 3.0 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 3.0	Purge Time Start: 1448 Stop: 1513

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.0	6.0	6.0				
Temp. (^oC)	26.4	29.5	29.3				
Specific Conductance (umohs/cm)	88	83	83				
Turbidity (NTU)	105	21.88	6.03				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1513	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.0	Oakton PCTestr 35
Temp (^{o} C)	29.3	Oakton PCTestr 35
Specific Conductance (umohs/cm)	83	Oakton PCTestr 35
Turbidity (NTU)	6.03	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-42I	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 426.68	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 28.16	Depth to Bottom (ft.): 59.39
Water Column (ft.): 31.23 x ___0.16__ gal/ft. (conversion factor)	= _____5.0 gal (1 well volume)
Three Well Volumes = 15.0 gal	
Purge Method: pump	Purge Date: 8/21/2015
Purge Volume (gal.): 15.0	Purge Time Start: 1126 Stop: 1202

Well Volumes Removed	1	2	3	4	5	6	7
pH	7.0	6.8	6.8				
Temp. (^oC)	21.6	21.1	21.2				
Specific Conductance (umohs/cm)	104	111	113				
Turbidity (NTU)	10.43	2.98	2.53				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/21/2015	Sample Method: pump
Sample Time: 1202	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.8	Oakton PCTestr 35
Temp (^{o} C)	21.2	Oakton PCTestr 35
Specific Conductance (umohs/cm)	113	Oakton PCTestr 35
Turbidity (NTU)	2.53	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 80s

Remarks:

Pump depth = 55 feet

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-43S	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 440.59	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 49.02	Depth to Bottom (ft.): 62.84
Water Column (ft.): 13.82 x ___0.16__ gal/ft. (conversion factor) = _____2.20 gal (1 well volume)	
Three Well Volumes = 6.6 gal	
Purge Method: pump	Purge Date: 8/19/2015
Purge Volume (gal.): 9.0	Purge Time Start: 1207 Stop: 1236

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.5	5.5	5.4	5.4			
Temp. (^oC)	23.1	21.4	21.9	22			
Specific Conductance (umohs/cm)	50	61	32	28			
Turbidity (NTU)	648	142	49.22	10.84			
Sample Characteristics	cloudy	clear	clear	clear			

Sample Date: 8/19/2015	Sample Method: pump
Sample Time: 1236	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.4	Oakton PCTestr 35
Temp (^{o} C)	22.0	Oakton PCTestr 35
Specific Conductance (umohs/cm)	28	Oakton PCTestr 35
Turbidity (NTU)	10.84	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-43D	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 438.01	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 48.42	Depth to Bottom (ft.): 106.00
Water Column (ft.): 57.58 x ___0.16__ gal/ft. (conversion factor) = _____9.20 gal (1 well volume)	
Three Well Volumes = 27.6 gal	
Purge Method: pump	Purge Date: 8/19/2015
Purge Volume (gal.): 28.0	Purge Time Start: 1046 Stop: 1156

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.0	5.8	5.8				
Temp. (^oC)	19.7	19.7	19.6				
Specific Conductance (umohs/cm)	48	43	41				
Turbidity (NTU)	5.66	8.14	4.30				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/19/2015	Sample Method: pump
Sample Time: 1156	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.8	Oakton PCTestr 35
Temp (^{o} C)	19.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	41	Oakton PCTestr 35
Turbidity (NTU)	4.30	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Pump depth = 100 feet

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey & J. Murphrey	
Well I.D.: MW-45R	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 447.50	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 32.37	Depth to Bottom (ft.): 44.62
Water Column (ft.): 12.25 x ___0.16__ gal/ft. (conversion factor)	= _____2.0 gal (1 well volume)
Three Well Volumes = 6.0 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 6.0	Purge Time Start: 1143 Stop: 1205

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.2	5.1	5.1				
Temp. (^oC)	23.9	25.2	25.4				
Specific Conductance (umohs/cm)	44	36	34				
Turbidity (NTU)	71	23.64	14.00				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1205	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.1	Oakton PCTestr 35
Temp (^{o} C)	25.4	Oakton PCTestr 35
Specific Conductance (umohs/cm)	34	Oakton PCTestr 35
Turbidity (NTU)	14.00	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-46	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 451.35	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 56.14	Depth to Bottom (ft.): 62.97
Water Column (ft.): 6.83 x ___0.16__ gal/ft. = _____1.1 gal	
conversion factor	1 well volume
Three Well Volumes = 3.3 gal	
Purge Method: pump	Purge Date: 8/18/2015
Purge Volume (gal.): 3.5	Purge Time Start: 1057 Stop: 1115

Well Volumes Removed	1	2	3	4	5	6	7
pH	5.9	5.7	5.7				
Temp. (^oC)	25.2	25.5	25.7				
Specific Conductance (umohs/cm)	29	30	30				
Turbidity (NTU)	42.46	16.39	13.69				
Sample Characteristics	clear	clear	clear				

Sample Date: 8/18/2015	Sample Method: pump
Sample Time: 1115	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.7	Oakton PCTestr 35
Temp (^{o} C)	25.7	Oakton PCTestr 35
Specific Conductance (umohs/cm)	30	Oakton PCTestr 35
Turbidity (NTU)	13.69	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: MW-47	Well Type: Monitoring
Well Diameter (in.): 2	Reference Point: Top of Casing
Elevation of Reference Point (ft.): 441.11	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.): 42.65	Depth to Bottom (ft.): 120.00
Water Column (ft.): 77.35 x ___0.16__ gal/ft. (conversion factor)	= 12.40 gal (1 well volume)
Three Well Volumes = 37.2 gal	
Purge Method: pump	Purge Date: 8/19/2015
Purge Volume (gal.): 50.0	Purge Time Start: 1335 Stop: 1450

Well Volumes Removed	1	2	3	4	5	6	7
pH	6.0	6.2	6.0	6.2			
Temp. (^oC)	20.8	21.5	20.3	20.5			
Specific Conductance (umohs/cm)	48	48	48	48			
Turbidity (NTU)	125	96	60	37.84			
Sample Characteristics	clear	clear	clear	clear			

Sample Date: 8/19/2015	Sample Method: pump
Sample Time: 1450	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.2	Oakton PCTestr 35
Temp (^{o} C)	20.5	Oakton PCTestr 35
Specific Conductance (umohs/cm)	48	Oakton PCTestr 35
Turbidity (NTU)	37.84	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions: cloudy, 70s

Remarks:

Pump depth = 100 feet. Obstruction in well at 100 feet.

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: RW-1	Well Type: Recovery
Well Diameter (in.): 4	Reference Point: Top of Casing
Elevation of Reference Point (ft.):	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.):	Depth to Bottom (ft.):
Water Column (ft.): x ___0.16__ gal/ft. (conversion factor) = _____ gal (1 well volume)	
Three Well Volumes = gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/28/2015	Sample Method: pump
Sample Time: 1435	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	5.4	Oakton PCTestr 35
Temp (^{o} C)	28.6	Oakton PCTestr 35
Specific Conductance (umohs/cm)	31	Oakton PCTestr 35
Turbidity (NTU)	-	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions:

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: RW-6	Well Type: Recovery
Well Diameter (in.): 4	Reference Point: Top of Casing
Elevation of Reference Point (ft.):	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.):	Depth to Bottom (ft.):
Water Column (ft.): x ___0.16__ gal/ft. (conversion factor) = _____ gal (1 well volume)	
Three Well Volumes = gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/28/2015	Sample Method: pump
Sample Time: 1320	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.5	Oakton PCTestr 35
Temp (^{o} C)	22.9	Oakton PCTestr 35
Specific Conductance (umohs/cm)	121	Oakton PCTestr 35
Turbidity (NTU)	-	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions:

Remarks:

PIEDMONT GEOLOGIC, P.C.

GROUNDWATER SAMPLING FORM

CLIENT: NCSU	PROJECT NAME: Lot 86 GW
PROJECT LOCATION: Raleigh, NC	PROJECT NO.: 1535
SAMPLING PERSONNEL: G. Murphrey	
Well I.D.: RW-10	Well Type: Recovery
Well Diameter (in.): 4	Reference Point: Top of Casing
Elevation of Reference Point (ft.):	Well Gauging Meter: Solinst Interface Meter
Depth to Water (ft.):	Depth to Bottom (ft.):
Water Column (ft.): x ___0.16__ gal/ft. (conversion factor) = _____ gal (1 well volume)	
Three Well Volumes = gal	
Purge Method:	Purge Date:
Purge Volume (gal.):	Purge Time Start: Stop:

Well Volumes Removed	1	2	3	4	5	6	7
pH							
Temp. (^oC)							
Specific Conductance (umohs/cm)							
Turbidity (NTU)							
Sample Characteristics							

Sample Date: 8/27/2015	Sample Method: pump
Sample Time: 1045	

Sample Containers Filled

No.	Type	Preservative	Analysis
3	40 mL	HCL	VOCs by EPA 6200B
1	250 mL	HNO3	Metals by EPA 6000/7000
2	40 mL	HCL	1,4-Dioxane by 8260 SIMS
1	250 mL	None	906.0 Tritium
1	500 mL	HNO3	900.0 Gross Beta
1	1/2 gal.	None	Gross Beta & Tritium for NCSU

Field Measurements of Sample:

pH	6.1	Oakton PCTestr 35
Temp (^{o} C)	20.1	Oakton PCTestr 35
Specific Conductance (umohs/cm)	107	Oakton PCTestr 35
Turbidity (NTU)	-	HI Model 98703 Turbidimeter
Sample Characteristics	clear	

Weather Conditions:

Remarks:

PIEDMONT GEOLOGIC, P.C.

LABORATORY REPORTS OF ANALYSIS

ANALYTICAL REPORT

September 02, 2015

Piedmont Geologic

Sample Delivery Group:	L785005
Samples Received:	08/25/2015
Project Number:	1535
Description:	NCSU Lot 86
Site:	RALEIGH, NC
Report To:	Mr. Pete Dressel 6003 Chapel Hill Road Suite 145 Raleigh, NC 27607

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-34DR L785005-01 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 10:15 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 20:01	08/27/15 20:01	JC

MW-46 L785005-02 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 11:15 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 20:25	08/27/15 20:25	JC

MW-45R L785005-03 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 12:05 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 20:49	08/27/15 20:49	JC

MW-41I L785005-04 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 13:58 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 21:14	08/27/15 21:14	JC

MW-41S L785005-05 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 14:25 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 21:38	08/27/15 21:38	JC

MW-42S L785005-06 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/18/15 15:13 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 22:02	08/27/15 22:02	JC

MW-38 L785005-07 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/19/15 10:16 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 22:26	08/27/15 22:26	JC

MW-43D L785005-08 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/19/15 11:56 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 22:50	08/27/15 22:50	JC

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-43S L785005-09 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/19/15 12:36 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 23:14	08/27/15 23:14	JC

MW-47 L785005-10 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/19/15 14:50 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/27/15 23:38	08/27/15 23:38	JC

MW-12D L785005-11 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/20/15 08:55 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/28/15 00:02	08/28/15 00:02	JC

MW-35D L785005-12 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/20/15 12:20 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/28/15 00:26	08/28/15 00:26	JC

MW-11I L785005-13 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/20/15 14:55 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/28/15 00:50	08/28/15 00:50	JC

MW-16D L785005-14 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/21/15 08:50 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG811329	1	08/28/15 01:15	08/28/15 01:15	JC

MW-35S L785005-15 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/21/15 09:15 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812120	1	08/31/15 14:15	08/31/15 14:15	JC

MW-41D L785005-16 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/21/15 11:00 | Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812120	1	08/31/15 14:39	08/31/15 14:39	JC

MW-42I L785005-17 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/21/15 12:02
Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	50	09/01/15 14:56	09/01/15 14:56	JC

MW-36D L785005-18 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/21/15 14:58
Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 14:31	09/01/15 14:31	JC

MW-62 L785005-19 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/21/15 14:58
Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812120	1	08/31/15 15:51	08/31/15 15:51	JC

MW-63 L785005-20 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/21/15 16:20
Received date/time: 08/25/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812120	1	08/31/15 16:15	08/31/15 16:15	JC

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the

Jimmy Hunt

Jimmy Hunt
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 20:01	WG811329
(S) Toluene-d8	*96.9*		*70.0-130*		*08/27/2015 20:01*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 20:25	WG811329
(S) Toluene-d8	*96.4*		*70.0-130*		*08/27/2015 20:25*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 20:49	WG811329
(S) Toluene-d8	*96.4*		*70.0-130*		*08/27/2015 20:49*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 21:14	WG811329
(S) Toluene-d8	*96.0*		*70.0-130*		*08/27/2015 21:14*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 21:38	WG811329
(S) Toluene-d8	*95.5*		*70.0-130*		*08/27/2015 21:38*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 22:02	WG811329
(S) Toluene-d8	*95.2*		*70.0-130*		*08/27/2015 22:02*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 22:26	WG811329
(S) Toluene-d8	*94.9*		*70.0-130*		*08/27/2015 22:26*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 22:50	WG811329
(S) Toluene-d8	*95.2*		*70.0-130*		*08/27/2015 22:50*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 23:14	WG811329
(S) Toluene-d8	*94.5*		*70.0-130*		*08/27/2015 23:14*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/27/2015 23:38	WG811329
(S) Toluene-d8	*94.7*		*70.0-130*		*08/27/2015 23:38*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/28/2015 00:02	WG811329
(S) Toluene-d8	*94.8*		*70.0-130*		*08/28/2015 00:02*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/28/2015 00:26	WG811329
(S) Toluene-d8	*94.5*		*70.0-130*		*08/28/2015 00:26*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	110		3.00	1	08/28/2015 00:50	WG811329
(S) Toluene-d8	*94.5*		*70.0-130*		*08/28/2015 00:50*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	387	V	3.00	1	08/28/2015 01:15	WG811329
(S) Toluene-d8	*94.5*		*70.0-130*		*08/28/2015 01:15*	WG811329

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND	J3 J5	3.00	1	08/31/2015 14:15	WG812120
(S) Toluene-d8	*95.3*		*70.0-130*		*08/31/2015 14:15*	WG812120

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/31/2015 14:39	WG812120
(S) Toluene-d8	*94.8*		*70.0-130*		*08/31/2015 14:39*	WG812120

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3520		150	50	09/01/2015 14:56	WG812794
(S) Toluene-d8	*95.2*		*70.0-130*		*09/01/2015 14:56*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/01/2015 14:31	WG812794
(S) Toluene-d8	*95.1*		*70.0-130*		*09/01/2015 14:31*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/31/2015 15:51	WG812120
(S) Toluene-d8	*94.4*		*70.0-130*		*08/31/2015 15:51*	WG812120

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	08/31/2015 16:15	WG812120
(S) Toluene-d8	*94.2*		*70.0-130*		*08/31/2015 16:15*	WG812120

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) 08/27/15 17:13

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*96.8*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/27/15 16:00 • (LCSD) 08/27/15 16:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0489	0.0521	97.7	104	70.0-130			6.40	25
(S) Toluene-d8				*95.4*	*95.6*	*70.0-130*				

L785005-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 08/28/15 01:15 • (MS) 08/28/15 01:39 • (MSD) 08/28/15 02:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.387	0.563	0.508	352	241	1	0.000-200	V	V	10.4	42
(S) Toluene-d8					*94.4*	*94.5*		*70.0-130*				

Method Blank (MB)

(MB) 08/31/15 06:48

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*96.0*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/31/15 10:54 • (LCSD) 08/31/15 12:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0423	0.0431	84.5	86.2	70.0-130			1.94	25
(S) Toluene-d8				*96.7*	*96.7*	*70.0-130*				

L785005-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 08/31/15 14:15 • (MS) 08/31/15 08:36 • (MSD) 08/31/15 12:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	ND	0.101	0.0621	203	124	1	0.000-200	J5	J3	48.0	42
(S) Toluene-d8					*96.5*	*95.9*		*70.0-130*				

Method Blank (MB)

(MB) 09/01/15 13:26

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*94.8*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/01/15 12:13 • (LCSD) 09/01/15 12:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0413	0.0451	82.6	90.2	70.0-130			8.74	25
(S) Toluene-d8				*95.4*	*94.9*	*70.0-130*				

L785005-18 Original Sample (OS) • Matrix Spike (MS)

(OS) 09/01/15 14:31 • (MS) 09/01/15 15:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
1,4-Dioxane	0.0500	0.00229	0.0556	107	1	0.000-200	
(S) Toluene-d8				*94.5*		*70.0-130*	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

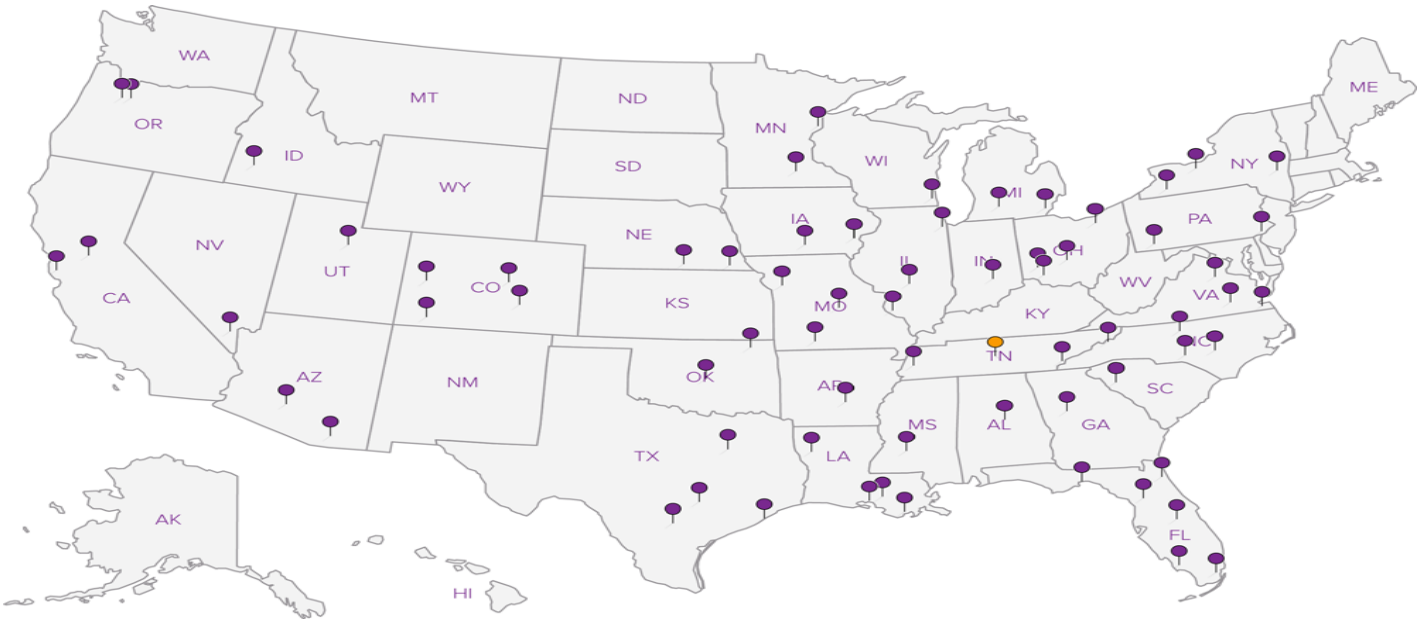
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Piedmont Geologic

6003 Chapel Hill Road Suite 145
Raleigh, NC 27607

Billing Information:
Accounts Payable
6003 Chapel Hill Rd Ste 145
Raleigh, NC 27607

Report to: Mr. Pete Dressel

Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86

City/State Collected: Raleigh, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project # 1535

Lab Project # PIEGEO-1535

Collected by (print): Geoffrey Murphey

Site/Facility ID # RALEIGH, NC

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L785005
E092

Acctnum: PIEGEO
Template: T104538
Prelogin: P518930
TSR: 350 - Jimmy Hunt
PB: 8/1 MJ
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LL14D 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
MW-34DR	Grab	GW		8/18/15	1015	2	X		-01
MW-46	↓	GW		↓	1115	2	X		-02
MW-45R	↓	GW		↓	1205	2	X		-03
MW-41I	↓	GW		↓	1358	2	X		-04
MW-41S	↓	GW		↓	1425	2	X		-05
MW-42S	↓	GW		↓	1513	2	X		-06
MW-38	↓	GW		8/19/15	1016	2	X		
MW-43D	↓	GW		↓	1156	2	X		
MW-43S	↓	GW		↓	1236	2	X		
MW-47	✓	GW		↓	1450	2	X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: PIEGEO071615S2

pH _____ Temp _____
Flow _____ Other _____

6436 7134 4245

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
J. Dressel	8/24/15	15:40	[signature]		101
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.0 °C Bottles Received: 40	COC Seal Intact: ✓ Y ___N ___NA
[signature]	8/24/15	17:00	[signature]	Date: 8.25.15 Time: 0900	pH Checked: / NCF:

Piedmont Geologic

6003 Chapel Hill Road Suite 145
Raleigh, NC 27607

Billing Information:
Accounts Payable
6003 Chapel Hill Rd Ste 145
Raleigh, NC 27607

Report to: Mr. Pete Dressel

Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86

City/State Collected: Raleigh, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project # 1535

Lab Project # PIEGEO-1535

Collected by (print): Geoffrey Murphrey

Site/Facility ID # RALEIGH, NC

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: PIEGEO
Template: T104538
Prelogin: P518930
TSR: 350 - Jimmy Hunt
PB: 8/1 MJ

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LL14D 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
MW-12D	Grab	GW		8/20/15	855	2	X		
MW-35D	↓	GW		↓	1220	2	X		
MW-11I	↓	GW		↓	1455	2	X		
MW-16D	↓	GW		8/21/15	850	2	X		
MW-35S	↓	GW		↓	915	2	X		
MW-41D	↓	GW		↓	1100	2	X		
MW-42I	↓	GW		↓	1202	2	X		
MW-36D	↓	GW		↓	1458	2	X		
MW-62	↓	GW		↓	1458	2	X		
MW-63	↓	GW		↓	1620	2	X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:PIEGEO071615S2

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	8/24/15	15:40	[signature]
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
[signature]	8/24/15	17:00	[signature]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.0 °C Bottles Received: 40

Date: 8.25.15 Time: 0900

Condition: (lab use only) TOI

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

ANALYTICAL REPORT

September 08, 2015

Piedmont Geologic

Sample Delivery Group:	L785895
Samples Received:	08/29/2015
Project Number:	1535
Description:	NCSU Lot 86
Site:	RALEIGH, NC
Report To:	Mr. Pete Dressel 6003 Chapel Hill Road Suite 145 Raleigh, NC 27607

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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MW-36S L785895-01 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 09:00 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/03/15 21:43	09/03/15 21:43	JC

MW-16I L785895-02 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 10:55 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813827	25	09/06/15 17:08	09/06/15 17:08	JC

MW-13D L785895-03 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 12:30 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813827	1	09/06/15 17:32	09/06/15 17:32	JC

MW-16S L785895-04 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 13:25 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/03/15 22:55	09/03/15 22:55	JC

MW-17D L785895-05 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 14:55 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/03/15 23:19	09/03/15 23:19	JC

MW-17I L785895-06 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/25/15 15:37 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/03/15 23:43	09/03/15 23:43	JC

MW-27 L785895-07 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/26/15 08:45 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/04/15 01:09	09/04/15 01:09	JC

MW-17S L785895-08 GW

Collected by: Geoffrey Murphrey | Collected date/time: 08/26/15 10:30 | Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/04/15 01:33	09/04/15 01:33	JC

MW-12I L785895-09 GW

Collected by Geoffrey Murphrey | Collected date/time 08/26/15 14:00 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813827	100	09/06/15 17:56	09/06/15 17:56	JC

MW-61 L785895-10 GW

Collected by Geoffrey Murphrey | Collected date/time 08/26/15 14:00 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG813827	100	09/06/15 18:20	09/06/15 18:20	JC

MW-3 L785895-11 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 08:45 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/04/15 12:20	09/04/15 12:20	JC

MW-8 L785895-12 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 09:20 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	1	09/04/15 12:44	09/04/15 12:44	JC

MW-37 L785895-13 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 09:35 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812402	25	09/04/15 13:40	09/04/15 13:40	JC

RW-10 L785895-14 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 10:45 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 19:45	09/01/15 19:45	JC

MW-12S L785895-15 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 12:10 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 20:09	09/01/15 20:09	JC

RW-1 L785895-16 GW

Collected by Geoffrey Murphrey | Collected date/time 08/27/15 14:35 | Received date/time 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 20:33	09/01/15 20:33	JC

MW-64 L785895-17 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/27/15 14:50
Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 20:57	09/01/15 20:57	JC

RW-6 L785895-18 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/28/15 13:20
Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 22:20	09/01/15 22:20	JC

TRIP BLANK L785895-19 GW

Collected by: Geoffrey Murphrey
Collected date/time: 08/28/15 14:00
Received date/time: 08/29/15 07:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812794	1	09/01/15 14:07	09/01/15 14:07	JC

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	5.67		3.00	1	09/03/2015 21:43	WG812402
(S) Toluene-d8	*95.3*		*70.0-130*		*09/03/2015 21:43*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3500		75.0	25	09/06/2015 17:08	WG813827
(S) Toluene-d8	*96.1*		*70.0-130*		*09/06/2015 17:08*	WG813827

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/06/2015 17:32	WG813827
(S) Toluene-d8	*95.6*		*70.0-130*		*09/06/2015 17:32*	WG813827

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	32.6		3.00	1	09/03/2015 22:55	WG812402
(S) Toluene-d8	*97.3*		*70.0-130*		*09/03/2015 22:55*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	14.4		3.00	1	09/03/2015 23:19	WG812402
(S) Toluene-d8	*96.3*		*70.0-130*		*09/03/2015 23:19*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	468		3.00	1	09/03/2015 23:43	WG812402
(S) Toluene-d8	*102*		*70.0-130*		*09/03/2015 23:43*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/04/2015 01:09	WG812402
(S) Toluene-d8	*95.1*		*70.0-130*		*09/04/2015 01:09*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/04/2015 01:33	WG812402
(S) Toluene-d8	*95.4*		*70.0-130*		*09/04/2015 01:33*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	18300		300	100	09/06/2015 17:56	WG813827
(S) Toluene-d8	*95.6*		*70.0-130*		*09/06/2015 17:56*	WG813827

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	15400		300	100	09/06/2015 18:20	WG813827
(S) Toluene-d8	*95.4*		*70.0-130*		*09/06/2015 18:20*	WG813827

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	486		3.00	1	09/04/2015 12:20	WG812402
(S) Toluene-d8	*127*		*70.0-130*		*09/04/2015 12:20*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	3.86		3.00	1	09/04/2015 12:44	WG812402
(S) Toluene-d8	*96.2*		*70.0-130*		*09/04/2015 12:44*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	10300		75.0	25	09/04/2015 13:40	WG812402
(S) Toluene-d8	*97.3*		*70.0-130*		*09/04/2015 13:40*	WG812402

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	826		3.00	1	09/01/2015 19:45	WG812794
(S) Toluene-d8	*97.8*		*70.0-130*		*09/01/2015 19:45*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	58.8		3.00	1	09/01/2015 20:09	WG812794
(S) Toluene-d8	*96.9*		*70.0-130*		*09/01/2015 20:09*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	19.6		3.00	1	09/01/2015 20:33	WG812794
(S) Toluene-d8	*97.1*		*70.0-130*		*09/01/2015 20:33*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/01/2015 20:57	WG812794
(S) Toluene-d8	*95.6*		*70.0-130*		*09/01/2015 20:57*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	282		3.00	1	09/01/2015 22:20	WG812794
(S) Toluene-d8	*95.1*		*70.0-130*		*09/01/2015 22:20*	WG812794

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	ND		3.00	1	09/01/2015 14:07	WG812794
(S) Toluene-d8	*95.4*		*70.0-130*		*09/01/2015 14:07*	WG812794

Method Blank (MB)

(MB) 09/03/15 14:35

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*95.8*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 13:22 • (LCSD) 09/03/15 13:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0424	0.0392	84.8	78.4	70.0-130			7.90	25
(S) Toluene-d8				*96.2*	*95.2*	*70.0-130*				

L785895-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/03/15 21:43 • (MS) 09/03/15 17:43 • (MSD) 09/03/15 18:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.00567	0.0585	0.0616	106	112	1	0.000-200			5.15	42
(S) Toluene-d8					*96.0*	*95.7*		*70.0-130*				

Method Blank (MB)

(MB) 09/01/15 13:26

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*94.8*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/01/15 12:13 • (LCSD) 09/01/15 12:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0413	0.0451	82.6	90.2	70.0-130			8.74	25
(S) Toluene-d8				*95.4*	*94.9*	*70.0-130*				

L785005-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/01/15 14:31 • (MS) 09/01/15 15:20 • (MSD) 09/01/15 15:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.00229	0.0556	0.0504	107	96.3	1	0.000-200			9.80	42
(S) Toluene-d8					*94.5*	*95.0*		*70.0-130*				

Method Blank (MB)

(MB) 09/06/15 15:07

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
1,4-Dioxane	ND		0.00300
(S) Toluene-d8	*95.9*		*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/06/15 13:54 • (LCSD) 09/06/15 14:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.0438	0.0445	87.5	89.1	70.0-130			1.75	25
(S) Toluene-d8				*96.1*	*95.8*	*70.0-130*				

L787282-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 09/06/15 16:43 • (MS) 09/06/15 15:31 • (MSD) 09/06/15 15:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	0.0500	0.00272	0.145	0.138	285	270	1	0.000-200	J5	J5	5.23	42
(S) Toluene-d8					*211*	*207*		*70.0-130*	J1	J1		

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

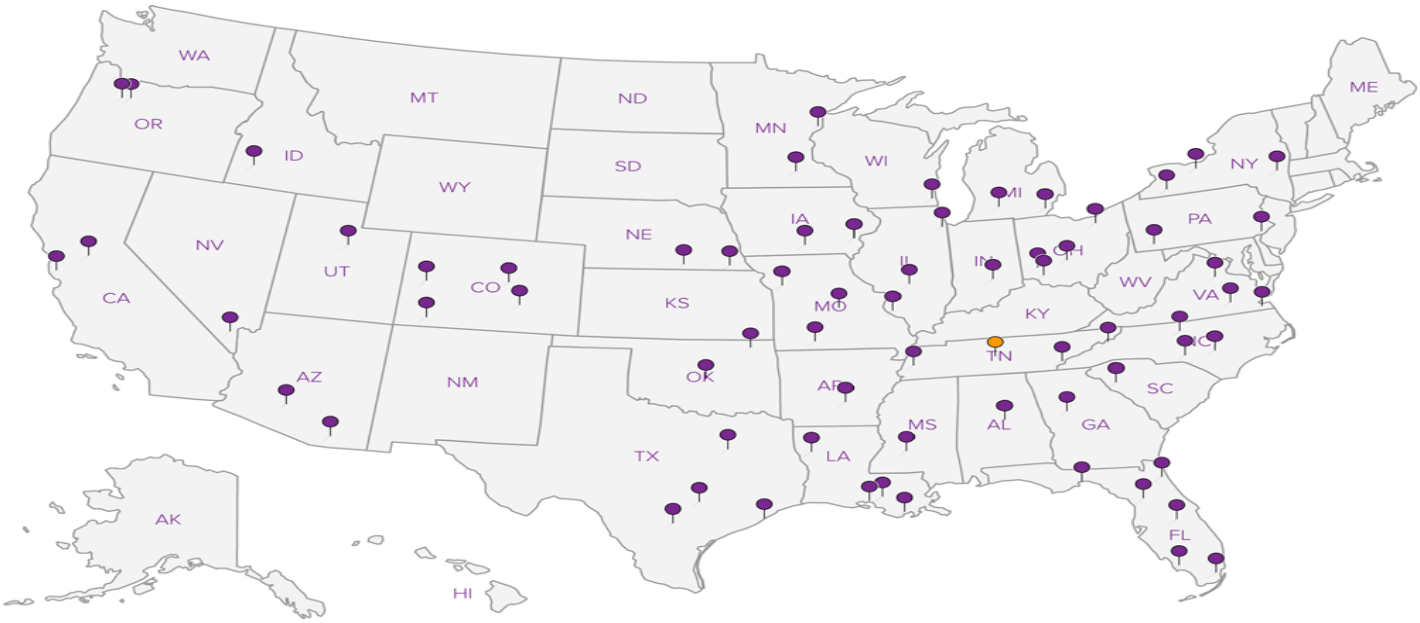
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Piedmont Geologic

6003 Chapel Hill Road Suite 145
Raleigh, NC 27607

Billing Information:
Accounts Payable
6003 Chapel Hill Rd Ste 145
Raleigh, NC 27607

Report to: Mr. Pete Dressel

Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86

City/State Collected: Raleigh, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project # 1535

Lab Project # PIEGEO-1535

Collected by (print): Geoffrey Murphey

Site/Facility ID # RALEIGH, NC

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 785895
D174

Acctnum: PIEGEO
Template: T104538
Prelogin: P518930
TSR: 350 - Jimmy Hunt
PB: 8/1

Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LL14D 40mlAmb-HCl									Rem./Contaminant	Sample # (lab only)
MW-36S	Grab	GW		8/25/15	900	2	X										01
MW-16I		GW			1055	2	X										02
MW-13D		GW			1230	2	X										03
MW-16S		GW			1325	2	X										04
MW-17D		GW			1455	2	X										05
MW-17I		GW			1537	2	X										06
MW-27		GW		8/26/15	845	2	X										07
MW-17S		GW			1030	2	X										08
MW-12I		GW			1400	2	X										09
MW-61		GW			1400	2	X										10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: PIEGEO071615S2

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	8/28/15	1530	[signature]
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
[signature]	8/28/15	17:55	[signature]

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☒ SWA

Temp: 3.2 °C Bottles Received: 37 VP

Date: 8/29/15 Time: 0700

Hold #

Condition: (lab use only) a

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

Piedmont Geologic

6003 Chapel Hill Road Suite 145
Raleigh, NC 27607

Billing Information:
Accounts Payable
6003 Chapel Hill Rd Ste 145
Raleigh, NC 27607

Report to: Mr. Pete Dressel

Email To: pjdressel@piedmontgeologic.com

Project Description: NCSU Lot 86

City/State Collected: Raleigh, NC

Phone: 919-854-9700
Fax: 919-854-9532

Client Project # 1535

Lab Project # PIEGEO-1535

Collected by (print): Geoffrey Murphet

Site/Facility ID # RALEIGH, NC

P.O. #

Collected by (Signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 785896

Table #

Acctnum: PIEGEO
Template: T104538
Prelogin: P518930
TSR: 350 - Jimmy Hunt
PB: 8/1

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LL14D 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
MW-3	Grab	GW		8/27/15	845	2	X		11
MW-8		GW			920	2	X		12
MW-37		GW			935	2	X		13
RW-10		GW			1045	2	X		14
MW-12S		GW			1210	2	X		15
RW-1					1435				16
MW-64					1450				17
RW-6				8/28/15	1320				18
Trip Blank					1400	1	X		19

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: PIEGEO071615S2

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8/28/15	1530	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
	8/28/15	17:35	

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.2 °C Bottles Received: 37

Date: 8/29/15 Time: 0700

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 490-85985-1
Client Project/Site: Lot 86

For:
Piedmont Geologic P.C.
6003 Chapel Hill Road
Suite 145
Raleigh, North Carolina 27607

Attn: Pete Dressel

Authorized for release by:
9/8/2015 4:05:54 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

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

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

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

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Sample Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-85985-1	MW-34DR	Water	08/18/15 10:15	08/25/15 10:00
490-85985-2	MW-46	Water	08/18/15 11:15	08/25/15 10:00
490-85985-3	MW-45R	Water	08/18/15 12:05	08/25/15 10:00
490-85985-4	MW-41I	Water	08/18/15 13:58	08/25/15 10:00
490-85985-5	MW-41S	Water	08/18/15 14:25	08/25/15 10:00
490-85985-6	MW-42S	Water	08/18/15 15:13	08/25/15 10:00
490-85985-7	MW-38	Water	08/19/15 10:16	08/25/15 10:00
490-85985-8	MW-43D	Water	08/19/15 11:56	08/25/15 10:00
490-85985-9	MW-43S	Water	08/19/15 12:36	08/25/15 10:00
490-85985-10	MW-47	Water	08/19/15 14:50	08/25/15 10:00
490-85985-11	MW-12D	Water	08/20/15 08:55	08/25/15 10:00
490-85985-12	MW-35D	Water	08/20/15 12:20	08/25/15 10:00
490-85985-13	MW-11I	Water	08/20/15 14:55	08/25/15 10:00
490-85985-14	MW-16D	Water	08/21/15 08:50	08/25/15 10:00
490-85985-15	MW-35S	Water	08/21/15 09:15	08/25/15 10:00
490-85985-16	MW-41D	Water	08/21/15 11:00	08/25/15 10:00
490-85985-17	MW-42I	Water	08/21/15 12:02	08/25/15 10:00
490-85985-18	MW-36D	Water	08/21/15 14:58	08/25/15 10:00
490-85985-19	MW-62	Water	08/21/15 14:58	08/25/15 10:00
490-85985-20	MW-63	Water	08/21/15 16:20	08/25/15 10:00

Case Narrative

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Job ID: 490-85985-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-85985-1

Comments
No additional comments.

Receipt
The samples were received on 8/25/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method(s) SM6200-B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-277635 recovered outside control limits for the following analytes: Bromochloromethane and Ethanol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) SM6200-B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-277635 and 490-277838.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

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

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-34DR

Date Collected: 08/18/15 10:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-1

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 20:48	1
Bromobenzene	ND		0.500		ug/L			08/28/15 20:48	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 20:48	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 20:48	1
Bromoform	ND		0.500		ug/L			08/28/15 20:48	1
Bromomethane	ND		0.500		ug/L			08/28/15 20:48	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 20:48	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
Chloroethane	ND		0.500		ug/L			08/28/15 20:48	1
Chloroform	ND		0.500		ug/L			08/28/15 20:48	1
Chloromethane	ND		0.500		ug/L			08/28/15 20:48	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 20:48	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 20:48	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 20:48	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 20:48	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 20:48	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 20:48	1
Dibromomethane	ND		0.500		ug/L			08/28/15 20:48	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 20:48	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 20:48	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 20:48	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 20:48	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 20:48	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 20:48	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 20:48	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 20:48	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 20:48	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 20:48	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 20:48	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 20:48	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 20:48	1
Naphthalene	ND		5.00		ug/L			08/28/15 20:48	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
o-Xylene	ND		0.500		ug/L			08/28/15 20:48	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 20:48	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
Styrene	ND		0.500		ug/L			08/28/15 20:48	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 20:48	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 20:48	1
Toluene	ND		0.500		ug/L			08/28/15 20:48	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 20:48	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 20:48	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-34DR

Date Collected: 08/18/15 10:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-1

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 20:48	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 20:48	1
Trichloroethene	ND		0.500		ug/L			08/28/15 20:48	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 20:48	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 20:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 20:48	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 20:48	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 20:48	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/28/15 20:48*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*08/28/15 20:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/28/15 20:48*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 20:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 14:39	1
Barium	**30.2**		10.0		ug/L		08/28/15 08:47	08/28/15 14:39	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 14:39	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 14:39	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 14:39	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 14:39	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 14:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:34	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-46

Date Collected: 08/18/15 11:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-2

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 17:23	1
Bromobenzene	ND		0.500		ug/L			08/31/15 17:23	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 17:23	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 17:23	1
Bromoform	ND		0.500		ug/L			08/31/15 17:23	1
Bromomethane	ND		0.500		ug/L			08/31/15 17:23	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 17:23	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
Chloroethane	ND		0.500		ug/L			08/31/15 17:23	1
Chloroform	**0.695**		0.500		ug/L			08/31/15 17:23	1
Chloromethane	ND		0.500		ug/L			08/31/15 17:23	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 17:23	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 17:23	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 17:23	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 17:23	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 17:23	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 17:23	1
Dibromomethane	ND		0.500		ug/L			08/31/15 17:23	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 17:23	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 17:23	1
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 17:23	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 17:23	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 17:23	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 17:23	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 17:23	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 17:23	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 17:23	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 17:23	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 17:23	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 17:23	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 17:23	1
Naphthalene	ND		5.00		ug/L			08/31/15 17:23	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
o-Xylene	ND		0.500		ug/L			08/31/15 17:23	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 17:23	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
Styrene	ND		0.500		ug/L			08/31/15 17:23	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 17:23	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 17:23	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 17:23	1
Toluene	ND		0.500		ug/L			08/31/15 17:23	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 17:23	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 17:23	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-46

Date Collected: 08/18/15 11:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-2

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 17:23	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 17:23	1
Trichloroethene	ND		0.500		ug/L			08/31/15 17:23	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 17:23	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 17:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 17:23	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 17:23	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 17:23	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*08/31/15 17:23*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/31/15 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/31/15 17:23*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/31/15 17:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:11	1
Barium	**27.4**		10.0		ug/L		08/28/15 08:47	08/28/15 15:11	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:11	1
Chromium	**16.8**		5.00		ug/L		08/28/15 08:47	08/28/15 15:11	1
Manganese	**121**		15.0		ug/L		08/28/15 08:47	08/28/15 15:11	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:11	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:36	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-45R

Date Collected: 08/18/15 12:05
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-3

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 18:19	1
Bromobenzene	ND		0.500		ug/L			08/31/15 18:19	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 18:19	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 18:19	1
Bromoform	ND		0.500		ug/L			08/31/15 18:19	1
Bromomethane	ND		0.500		ug/L			08/31/15 18:19	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 18:19	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
Chloroethane	ND		0.500		ug/L			08/31/15 18:19	1
Chloroform	**1.07**		0.500		ug/L			08/31/15 18:19	1
Chloromethane	ND		0.500		ug/L			08/31/15 18:19	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 18:19	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 18:19	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 18:19	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 18:19	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 18:19	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 18:19	1
Dibromomethane	ND		0.500		ug/L			08/31/15 18:19	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 18:19	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 18:19	1
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 18:19	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 18:19	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 18:19	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 18:19	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 18:19	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 18:19	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 18:19	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 18:19	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 18:19	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 18:19	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 18:19	1
Naphthalene	ND		5.00		ug/L			08/31/15 18:19	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
o-Xylene	ND		0.500		ug/L			08/31/15 18:19	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 18:19	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
Styrene	ND		0.500		ug/L			08/31/15 18:19	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 18:19	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 18:19	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 18:19	1
Toluene	ND		0.500		ug/L			08/31/15 18:19	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 18:19	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 18:19	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-45R

Date Collected: 08/18/15 12:05
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-3

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 18:19	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 18:19	1
Trichloroethene	ND		0.500		ug/L			08/31/15 18:19	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 18:19	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 18:19	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 18:19	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 18:19	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/31/15 18:19*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*08/31/15 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/31/15 18:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/31/15 18:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:15	1
Barium	**14.5**		10.0		ug/L		08/28/15 08:47	08/28/15 15:15	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:15	1
Chromium	**5.50**		5.00		ug/L		08/28/15 08:47	08/28/15 15:15	1
Manganese	**102**		15.0		ug/L		08/28/15 08:47	08/28/15 15:15	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:15	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:39	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41I

Date Collected: 08/18/15 13:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-4

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 18:47	1
Bromobenzene	ND		0.500		ug/L			08/31/15 18:47	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 18:47	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 18:47	1
Bromoform	ND		0.500		ug/L			08/31/15 18:47	1
Bromomethane	ND		0.500		ug/L			08/31/15 18:47	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 18:47	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
Chloroethane	ND		0.500		ug/L			08/31/15 18:47	1
Chloroform	**1.52**		0.500		ug/L			08/31/15 18:47	1
Chloromethane	ND		0.500		ug/L			08/31/15 18:47	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 18:47	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 18:47	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 18:47	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 18:47	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 18:47	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 18:47	1
Dibromomethane	ND		0.500		ug/L			08/31/15 18:47	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 18:47	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 18:47	1
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 18:47	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 18:47	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 18:47	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 18:47	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 18:47	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 18:47	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 18:47	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 18:47	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 18:47	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 18:47	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 18:47	1
Naphthalene	ND		5.00		ug/L			08/31/15 18:47	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
o-Xylene	ND		0.500		ug/L			08/31/15 18:47	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 18:47	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
Styrene	ND		0.500		ug/L			08/31/15 18:47	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 18:47	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 18:47	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 18:47	1
Toluene	ND		0.500		ug/L			08/31/15 18:47	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 18:47	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 18:47	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41I

Date Collected: 08/18/15 13:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-4

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 18:47	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 18:47	1
Trichloroethene	ND		0.500		ug/L			08/31/15 18:47	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 18:47	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 18:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 18:47	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 18:47	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 18:47	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/31/15 18:47*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*08/31/15 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/31/15 18:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/31/15 18:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:19	1
Barium	**30.6**		10.0		ug/L		08/28/15 08:47	08/28/15 15:19	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:19	1
Chromium	**5.20**		5.00		ug/L		08/28/15 08:47	08/28/15 15:19	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 15:19	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:19	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:41	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41S

Date Collected: 08/18/15 14:25
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-5

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 13:49	1
Bromobenzene	ND		0.500		ug/L			08/28/15 13:49	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 13:49	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 13:49	1
Bromoform	ND		0.500		ug/L			08/28/15 13:49	1
Bromomethane	ND		0.500		ug/L			08/28/15 13:49	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 13:49	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
Chloroethane	ND		0.500		ug/L			08/28/15 13:49	1
Chloroform	**0.511**		0.500		ug/L			08/28/15 13:49	1
Chloromethane	ND		0.500		ug/L			08/28/15 13:49	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 13:49	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 13:49	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 13:49	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 13:49	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 13:49	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 13:49	1
Dibromomethane	ND		0.500		ug/L			08/28/15 13:49	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 13:49	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 13:49	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 13:49	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 13:49	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 13:49	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 13:49	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 13:49	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 13:49	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 13:49	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 13:49	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 13:49	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 13:49	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 13:49	1
Naphthalene	ND		5.00		ug/L			08/28/15 13:49	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
o-Xylene	ND		0.500		ug/L			08/28/15 13:49	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 13:49	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
Styrene	ND		0.500		ug/L			08/28/15 13:49	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 13:49	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 13:49	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 13:49	1
Toluene	ND		0.500		ug/L			08/28/15 13:49	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 13:49	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 13:49	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41S

Date Collected: 08/18/15 14:25
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-5

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 13:49	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 13:49	1
Trichloroethene	ND		0.500		ug/L			08/28/15 13:49	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 13:49	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 13:49	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 13:49	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 13:49	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/28/15 13:49*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*08/28/15 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/28/15 13:49*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 13:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:24	1
Barium	**52.6**		10.0		ug/L		08/28/15 08:47	08/28/15 15:24	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:24	1
Chromium	**12.9**		5.00		ug/L		08/28/15 08:47	08/28/15 15:24	1
Manganese	**115**		15.0		ug/L		08/28/15 08:47	08/28/15 15:24	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:24	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:44	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-42S

Date Collected: 08/18/15 15:13
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-6

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 14:17	1
Bromobenzene	ND		0.500		ug/L			08/28/15 14:17	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 14:17	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 14:17	1
Bromoform	ND		0.500		ug/L			08/28/15 14:17	1
Bromomethane	ND		0.500		ug/L			08/28/15 14:17	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 14:17	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
Chloroethane	ND		0.500		ug/L			08/28/15 14:17	1
Chloroform	**1.75**		0.500		ug/L			08/28/15 14:17	1
Chloromethane	ND		0.500		ug/L			08/28/15 14:17	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 14:17	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 14:17	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 14:17	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 14:17	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 14:17	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 14:17	1
Dibromomethane	ND		0.500		ug/L			08/28/15 14:17	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 14:17	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 14:17	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 14:17	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 14:17	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 14:17	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 14:17	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 14:17	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 14:17	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 14:17	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 14:17	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 14:17	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 14:17	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 14:17	1
Naphthalene	ND		5.00		ug/L			08/28/15 14:17	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
o-Xylene	ND		0.500		ug/L			08/28/15 14:17	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 14:17	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
Styrene	ND		0.500		ug/L			08/28/15 14:17	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 14:17	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 14:17	1
Toluene	ND		0.500		ug/L			08/28/15 14:17	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 14:17	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 14:17	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-42S

Date Collected: 08/18/15 15:13
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-6

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 14:17	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 14:17	1
Trichloroethene	ND		0.500		ug/L			08/28/15 14:17	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 14:17	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 14:17	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 14:17	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 14:17	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/28/15 14:17*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/28/15 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/28/15 14:17*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*08/28/15 14:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:28	1
Barium	**19.4**		10.0		ug/L		08/28/15 08:47	08/28/15 15:28	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:28	1
Chromium	**7.70**		5.00		ug/L		08/28/15 08:47	08/28/15 15:28	1
Manganese	**61.7**		15.0		ug/L		08/28/15 08:47	08/28/15 15:28	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:28	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:51	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-38

Date Collected: 08/19/15 10:16
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-7

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 14:45	1
Bromobenzene	ND		0.500		ug/L			08/28/15 14:45	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 14:45	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 14:45	1
Bromoform	ND		0.500		ug/L			08/28/15 14:45	1
Bromomethane	ND		0.500		ug/L			08/28/15 14:45	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 14:45	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
Chloroethane	ND		0.500		ug/L			08/28/15 14:45	1
Chloroform	ND		0.500		ug/L			08/28/15 14:45	1
Chloromethane	ND		0.500		ug/L			08/28/15 14:45	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 14:45	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 14:45	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 14:45	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 14:45	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 14:45	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 14:45	1
Dibromomethane	ND		0.500		ug/L			08/28/15 14:45	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 14:45	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 14:45	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 14:45	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 14:45	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 14:45	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 14:45	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 14:45	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 14:45	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 14:45	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 14:45	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 14:45	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 14:45	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 14:45	1
Naphthalene	ND		5.00		ug/L			08/28/15 14:45	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
o-Xylene	ND		0.500		ug/L			08/28/15 14:45	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 14:45	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
Styrene	ND		0.500		ug/L			08/28/15 14:45	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 14:45	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 14:45	1
Toluene	ND		0.500		ug/L			08/28/15 14:45	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 14:45	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 14:45	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-38

Date Collected: 08/19/15 10:16
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-7

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 14:45	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 14:45	1
Trichloroethene	ND		0.500		ug/L			08/28/15 14:45	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 14:45	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 14:45	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 14:45	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 14:45	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/28/15 14:45*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*08/28/15 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/28/15 14:45*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 14:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:32	1
Barium	**22.0**		10.0		ug/L		08/28/15 08:47	08/28/15 15:32	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:32	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:32	1
Manganese	**64.6**		15.0		ug/L		08/28/15 08:47	08/28/15 15:32	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:32	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 23:53	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-43D

Date Collected: 08/19/15 11:56
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-8

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 15:13	1
Bromobenzene	ND		0.500		ug/L			08/28/15 15:13	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 15:13	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 15:13	1
Bromoform	ND		0.500		ug/L			08/28/15 15:13	1
Bromomethane	ND		0.500		ug/L			08/28/15 15:13	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 15:13	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
Chloroethane	ND		0.500		ug/L			08/28/15 15:13	1
Chloroform	**4.73**		0.500		ug/L			08/28/15 15:13	1
Chloromethane	ND		0.500		ug/L			08/28/15 15:13	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 15:13	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 15:13	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 15:13	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 15:13	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 15:13	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 15:13	1
Dibromomethane	ND		0.500		ug/L			08/28/15 15:13	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 15:13	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 15:13	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 15:13	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 15:13	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 15:13	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 15:13	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 15:13	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 15:13	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 15:13	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 15:13	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 15:13	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 15:13	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 15:13	1
Naphthalene	ND		5.00		ug/L			08/28/15 15:13	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
o-Xylene	ND		0.500		ug/L			08/28/15 15:13	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 15:13	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
Styrene	ND		0.500		ug/L			08/28/15 15:13	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 15:13	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 15:13	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 15:13	1
Toluene	ND		0.500		ug/L			08/28/15 15:13	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 15:13	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 15:13	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-43D

Date Collected: 08/19/15 11:56
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-8

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 15:13	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 15:13	1
Trichloroethene	ND		0.500		ug/L			08/28/15 15:13	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 15:13	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 15:13	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 15:13	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 15:13	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/28/15 15:13*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/28/15 15:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/28/15 15:13*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 15:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:37	1
Barium	**13.4**		10.0		ug/L		08/28/15 08:47	08/28/15 15:37	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:37	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:37	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 15:37	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:37	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 15:52	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-43S

Date Collected: 08/19/15 12:36
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-9

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 15:40	1
Bromobenzene	ND		0.500		ug/L			08/28/15 15:40	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 15:40	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 15:40	1
Bromoform	ND		0.500		ug/L			08/28/15 15:40	1
Bromomethane	ND		0.500		ug/L			08/28/15 15:40	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 15:40	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
Chloroethane	ND		0.500		ug/L			08/28/15 15:40	1
Chloroform	**21.2**		0.500		ug/L			08/28/15 15:40	1
Chloromethane	ND		0.500		ug/L			08/28/15 15:40	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 15:40	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 15:40	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 15:40	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 15:40	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 15:40	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 15:40	1
Dibromomethane	ND		0.500		ug/L			08/28/15 15:40	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 15:40	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 15:40	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 15:40	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 15:40	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 15:40	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 15:40	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 15:40	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 15:40	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 15:40	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 15:40	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 15:40	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 15:40	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 15:40	1
Naphthalene	ND		5.00		ug/L			08/28/15 15:40	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
o-Xylene	ND		0.500		ug/L			08/28/15 15:40	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 15:40	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
Styrene	ND		0.500		ug/L			08/28/15 15:40	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 15:40	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 15:40	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 15:40	1
Toluene	ND		0.500		ug/L			08/28/15 15:40	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 15:40	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 15:40	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-43S

Date Collected: 08/19/15 12:36
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-9

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 15:40	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 15:40	1
Trichloroethene	ND		0.500		ug/L			08/28/15 15:40	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 15:40	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 15:40	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 15:40	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 15:40	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*08/28/15 15:40*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*08/28/15 15:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/28/15 15:40*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 15:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:51	1
Barium	**27.2**		10.0		ug/L		08/28/15 08:47	08/28/15 15:51	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:51	1
Chromium	**33.1**		5.00		ug/L		08/28/15 08:47	08/28/15 15:51	1
Manganese	**36.4**		15.0		ug/L		08/28/15 08:47	08/28/15 15:51	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:51	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 15:54	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-47

Date Collected: 08/19/15 14:50
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-10

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 16:08	1
Bromobenzene	ND		0.500		ug/L			08/28/15 16:08	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 16:08	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 16:08	1
Bromoform	ND		0.500		ug/L			08/28/15 16:08	1
Bromomethane	ND		0.500		ug/L			08/28/15 16:08	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 16:08	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
Chloroethane	ND		0.500		ug/L			08/28/15 16:08	1
Chloroform	**22.0**		0.500		ug/L			08/28/15 16:08	1
Chloromethane	ND		0.500		ug/L			08/28/15 16:08	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 16:08	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 16:08	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 16:08	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 16:08	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 16:08	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 16:08	1
Dibromomethane	ND		0.500		ug/L			08/28/15 16:08	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 16:08	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 16:08	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 16:08	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 16:08	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 16:08	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 16:08	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 16:08	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 16:08	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 16:08	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 16:08	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 16:08	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 16:08	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 16:08	1
Naphthalene	ND		5.00		ug/L			08/28/15 16:08	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
o-Xylene	ND		0.500		ug/L			08/28/15 16:08	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 16:08	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
Styrene	ND		0.500		ug/L			08/28/15 16:08	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 16:08	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 16:08	1
Toluene	ND		0.500		ug/L			08/28/15 16:08	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 16:08	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 16:08	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-47

Date Collected: 08/19/15 14:50
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-10

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 16:08	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 16:08	1
Trichloroethene	ND		0.500		ug/L			08/28/15 16:08	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 16:08	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 16:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 16:08	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 16:08	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 16:08	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*08/28/15 16:08*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*08/28/15 16:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/28/15 16:08*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 16:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:55	1
Barium	**27.7**		10.0		ug/L		08/28/15 08:47	08/28/15 15:55	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 15:55	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:55	1
Manganese	**30.9**		15.0		ug/L		08/28/15 08:47	08/28/15 15:55	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 15:55	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 15:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 15:57	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-12D

Date Collected: 08/20/15 08:55
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-11

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 16:37	1
Bromobenzene	ND		0.500		ug/L			08/28/15 16:37	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 16:37	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 16:37	1
Bromoform	ND		0.500		ug/L			08/28/15 16:37	1
Bromomethane	ND		0.500		ug/L			08/28/15 16:37	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 16:37	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
Chloroethane	ND		0.500		ug/L			08/28/15 16:37	1
Chloroform	ND		0.500		ug/L			08/28/15 16:37	1
Chloromethane	ND		0.500		ug/L			08/28/15 16:37	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 16:37	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 16:37	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 16:37	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 16:37	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 16:37	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 16:37	1
Dibromomethane	ND		0.500		ug/L			08/28/15 16:37	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 16:37	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 16:37	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 16:37	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 16:37	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 16:37	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 16:37	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 16:37	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 16:37	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 16:37	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 16:37	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 16:37	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 16:37	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 16:37	1
Naphthalene	ND		5.00		ug/L			08/28/15 16:37	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
o-Xylene	ND		0.500		ug/L			08/28/15 16:37	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 16:37	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
Styrene	ND		0.500		ug/L			08/28/15 16:37	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 16:37	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 16:37	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 16:37	1
Toluene	ND		0.500		ug/L			08/28/15 16:37	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 16:37	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 16:37	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-12D

Date Collected: 08/20/15 08:55
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-11

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 16:37	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 16:37	1
Trichloroethene	ND		0.500		ug/L			08/28/15 16:37	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 16:37	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 16:37	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 16:37	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 16:37	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/28/15 16:37*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*08/28/15 16:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*08/28/15 16:37*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 16:37*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:00	1
Barium	**21.6**		10.0		ug/L		08/28/15 08:47	08/28/15 16:00	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:00	1
Chromium	**8.00**		5.00		ug/L		08/28/15 08:47	08/28/15 16:00	1
Manganese	**115**		15.0		ug/L		08/28/15 08:47	08/28/15 16:00	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:00	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 15:59	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-35D

Date Collected: 08/20/15 12:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-12

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 17:05	1
Bromobenzene	ND		0.500		ug/L			08/28/15 17:05	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 17:05	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 17:05	1
Bromoform	ND		0.500		ug/L			08/28/15 17:05	1
Bromomethane	ND		0.500		ug/L			08/28/15 17:05	1
Carbon tetrachloride	**1.95**		0.500		ug/L			08/28/15 17:05	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
Chloroethane	ND		0.500		ug/L			08/28/15 17:05	1
Chloroform	**17.0**		0.500		ug/L			08/28/15 17:05	1
Chloromethane	ND		0.500		ug/L			08/28/15 17:05	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 17:05	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 17:05	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 17:05	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 17:05	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 17:05	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 17:05	1
Dibromomethane	ND		0.500		ug/L			08/28/15 17:05	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 17:05	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 17:05	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 17:05	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 17:05	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 17:05	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 17:05	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 17:05	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 17:05	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 17:05	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 17:05	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 17:05	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 17:05	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 17:05	1
Naphthalene	ND		5.00		ug/L			08/28/15 17:05	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
o-Xylene	ND		0.500		ug/L			08/28/15 17:05	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 17:05	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
Styrene	ND		0.500		ug/L			08/28/15 17:05	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 17:05	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 17:05	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 17:05	1
Toluene	ND		0.500		ug/L			08/28/15 17:05	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 17:05	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 17:05	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-35D

Date Collected: 08/20/15 12:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-12

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 17:05	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 17:05	1
Trichloroethene	ND		0.500		ug/L			08/28/15 17:05	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 17:05	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 17:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 17:05	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 17:05	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 17:05	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*08/28/15 17:05*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*08/28/15 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*08/28/15 17:05*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 17:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:04	1
Barium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:04	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:04	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:04	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 16:04	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:04	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:01	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-11I

Date Collected: 08/20/15 14:55
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-13

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 17:33	1
Bromobenzene	ND		0.500		ug/L			08/28/15 17:33	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 17:33	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 17:33	1
Bromoform	ND		0.500		ug/L			08/28/15 17:33	1
Bromomethane	ND		0.500		ug/L			08/28/15 17:33	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 17:33	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
Chloroethane	ND		0.500		ug/L			08/28/15 17:33	1
Chloroform	ND		0.500		ug/L			08/28/15 17:33	1
Chloromethane	ND		0.500		ug/L			08/28/15 17:33	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 17:33	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 17:33	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 17:33	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 17:33	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 17:33	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 17:33	1
Dibromomethane	ND		0.500		ug/L			08/28/15 17:33	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 17:33	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 17:33	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 17:33	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 17:33	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 17:33	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 17:33	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 17:33	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 17:33	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 17:33	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 17:33	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 17:33	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 17:33	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 17:33	1
Naphthalene	ND		5.00		ug/L			08/28/15 17:33	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
o-Xylene	ND		0.500		ug/L			08/28/15 17:33	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 17:33	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
Styrene	ND		0.500		ug/L			08/28/15 17:33	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 17:33	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 17:33	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 17:33	1
Toluene	ND		0.500		ug/L			08/28/15 17:33	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 17:33	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 17:33	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-11I

Date Collected: 08/20/15 14:55
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-13

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 17:33	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 17:33	1
Trichloroethene	ND		0.500		ug/L			08/28/15 17:33	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 17:33	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 17:33	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 17:33	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 17:33	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*08/28/15 17:33*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/28/15 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/28/15 17:33*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 17:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:08	1
Barium	**26.7**		10.0		ug/L		08/28/15 08:47	08/28/15 16:08	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:08	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:08	1
Manganese	**209**		15.0		ug/L		08/28/15 08:47	08/28/15 16:08	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:08	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:04	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-16D

Date Collected: 08/21/15 08:50
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-14

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.628**		0.500		ug/L			08/28/15 18:01	1
Bromobenzene	ND		0.500		ug/L			08/28/15 18:01	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 18:01	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 18:01	1
Bromoform	ND		0.500		ug/L			08/28/15 18:01	1
Bromomethane	ND		0.500		ug/L			08/28/15 18:01	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 18:01	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
Chloroethane	ND		0.500		ug/L			08/28/15 18:01	1
Chloroform	ND		0.500		ug/L			08/28/15 18:01	1
Chloromethane	ND		0.500		ug/L			08/28/15 18:01	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 18:01	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 18:01	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 18:01	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 18:01	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 18:01	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 18:01	1
Dibromomethane	ND		0.500		ug/L			08/28/15 18:01	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 18:01	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 18:01	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 18:01	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 18:01	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 18:01	1
1,2-Dichloropropane	**1.61**		0.500		ug/L			08/28/15 18:01	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 18:01	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 18:01	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 18:01	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 18:01	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 18:01	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 18:01	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 18:01	1
Naphthalene	ND		5.00		ug/L			08/28/15 18:01	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
o-Xylene	ND		0.500		ug/L			08/28/15 18:01	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 18:01	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
Styrene	ND		0.500		ug/L			08/28/15 18:01	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 18:01	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 18:01	1
Toluene	ND		0.500		ug/L			08/28/15 18:01	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 18:01	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 18:01	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-16D

Date Collected: 08/21/15 08:50
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-14

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 18:01	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 18:01	1
Trichloroethene	ND		0.500		ug/L			08/28/15 18:01	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 18:01	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 18:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 18:01	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 18:01	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 18:01	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/28/15 18:01*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/28/15 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/28/15 18:01*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 18:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:13	1
Barium	**25.1**		10.0		ug/L		08/28/15 08:47	08/28/15 16:13	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:13	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:13	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 16:13	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:13	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:06	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-35S

Date Collected: 08/21/15 09:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-15

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 17:51	1
Bromobenzene	ND		0.500		ug/L			08/31/15 17:51	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 17:51	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 17:51	1
Bromoform	ND		0.500		ug/L			08/31/15 17:51	1
Bromomethane	ND		0.500		ug/L			08/31/15 17:51	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 17:51	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
Chloroethane	ND		0.500		ug/L			08/31/15 17:51	1
Chloroform	ND		0.500		ug/L			08/31/15 17:51	1
Chloromethane	ND		0.500		ug/L			08/31/15 17:51	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 17:51	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 17:51	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 17:51	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 17:51	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 17:51	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 17:51	1
Dibromomethane	ND		0.500		ug/L			08/31/15 17:51	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 17:51	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 17:51	1
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 17:51	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 17:51	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 17:51	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 17:51	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 17:51	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 17:51	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 17:51	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 17:51	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 17:51	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 17:51	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 17:51	1
Naphthalene	ND		5.00		ug/L			08/31/15 17:51	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
o-Xylene	ND		0.500		ug/L			08/31/15 17:51	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 17:51	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
Styrene	ND		0.500		ug/L			08/31/15 17:51	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 17:51	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 17:51	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 17:51	1
Toluene	ND		0.500		ug/L			08/31/15 17:51	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 17:51	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 17:51	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-35S

Date Collected: 08/21/15 09:15
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-15

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 17:51	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 17:51	1
Trichloroethene	ND		0.500		ug/L			08/31/15 17:51	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 17:51	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 17:51	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 17:51	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 17:51	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/31/15 17:51*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*08/31/15 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/31/15 17:51*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/31/15 17:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:17	1
Barium	**36.1**		10.0		ug/L		08/28/15 08:47	08/28/15 16:17	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:17	1
Chromium	**10.2**		5.00		ug/L		08/28/15 08:47	08/28/15 16:17	1
Manganese	**45.9**		15.0		ug/L		08/28/15 08:47	08/28/15 16:17	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:17	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:09	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41D

Date Collected: 08/21/15 11:00
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-16

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 18:56	1
Bromobenzene	ND		0.500		ug/L			08/28/15 18:56	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 18:56	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 18:56	1
Bromoform	ND		0.500		ug/L			08/28/15 18:56	1
Bromomethane	ND		0.500		ug/L			08/28/15 18:56	1
Carbon tetrachloride	**7.15**		0.500		ug/L			08/28/15 18:56	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
Chloroethane	ND		0.500		ug/L			08/28/15 18:56	1
Chloroform	**37.5**		0.500		ug/L			08/28/15 18:56	1
Chloromethane	ND		0.500		ug/L			08/28/15 18:56	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 18:56	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 18:56	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 18:56	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 18:56	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 18:56	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 18:56	1
Dibromomethane	ND		0.500		ug/L			08/28/15 18:56	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 18:56	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 18:56	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 18:56	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 18:56	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 18:56	1
1,2-Dichloropropane	**2.12**		0.500		ug/L			08/28/15 18:56	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 18:56	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 18:56	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 18:56	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 18:56	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 18:56	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 18:56	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 18:56	1
Naphthalene	ND		5.00		ug/L			08/28/15 18:56	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
o-Xylene	ND		0.500		ug/L			08/28/15 18:56	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 18:56	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
Styrene	ND		0.500		ug/L			08/28/15 18:56	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 18:56	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 18:56	1
Tetrachloroethene	**0.775**		0.500		ug/L			08/28/15 18:56	1
Toluene	ND		0.500		ug/L			08/28/15 18:56	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 18:56	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 18:56	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41D

Date Collected: 08/21/15 11:00
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-16

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 18:56	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 18:56	1
Trichloroethene	**1.35**		0.500		ug/L			08/28/15 18:56	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 18:56	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 18:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 18:56	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 18:56	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 18:56	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*08/28/15 18:56*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*08/28/15 18:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*08/28/15 18:56*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 18:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:21	1
Barium	**34.5**		10.0		ug/L		08/28/15 08:47	08/28/15 16:21	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:21	1
Chromium	**6.50**		5.00		ug/L		08/28/15 08:47	08/28/15 16:21	1
Manganese	**224**		15.0		ug/L		08/28/15 08:47	08/28/15 16:21	1
Lead	**5.80**		5.00		ug/L		08/28/15 08:47	08/28/15 16:21	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:11	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-42I

Date Collected: 08/21/15 12:02
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-17

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 19:24	1
Bromobenzene	ND		0.500		ug/L			08/28/15 19:24	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 19:24	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 19:24	1
Bromoform	ND		0.500		ug/L			08/28/15 19:24	1
Bromomethane	ND		0.500		ug/L			08/28/15 19:24	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 19:24	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
Chloroethane	ND		0.500		ug/L			08/28/15 19:24	1
Chloroform	**3.30**		0.500		ug/L			08/28/15 19:24	1
Chloromethane	ND		0.500		ug/L			08/28/15 19:24	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 19:24	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 19:24	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 19:24	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 19:24	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 19:24	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 19:24	1
Dibromomethane	ND		0.500		ug/L			08/28/15 19:24	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 19:24	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 19:24	1
1,2-Dichloroethane	**1.31**		0.500		ug/L			08/28/15 19:24	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 19:24	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 19:24	1
1,2-Dichloropropane	**5.92**		0.500		ug/L			08/28/15 19:24	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 19:24	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 19:24	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 19:24	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 19:24	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 19:24	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 19:24	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 19:24	1
Naphthalene	ND		5.00		ug/L			08/28/15 19:24	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
o-Xylene	ND		0.500		ug/L			08/28/15 19:24	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 19:24	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
Styrene	ND		0.500		ug/L			08/28/15 19:24	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 19:24	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 19:24	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 19:24	1
Toluene	ND		0.500		ug/L			08/28/15 19:24	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 19:24	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 19:24	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-42I

Date Collected: 08/21/15 12:02
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-17

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 19:24	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 19:24	1
Trichloroethene	ND		0.500		ug/L			08/28/15 19:24	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 19:24	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 19:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 19:24	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 19:24	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 19:24	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*08/28/15 19:24*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*08/28/15 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*08/28/15 19:24*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/28/15 19:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:26	1
Barium	**22.5**		10.0		ug/L		08/28/15 08:47	08/28/15 16:26	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:26	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:26	1
Manganese	**352**		15.0		ug/L		08/28/15 08:47	08/28/15 16:26	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:26	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:18	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-36D

Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-18

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 19:52	1
Bromobenzene	ND		0.500		ug/L			08/28/15 19:52	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 19:52	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 19:52	1
Bromoform	ND		0.500		ug/L			08/28/15 19:52	1
Bromomethane	ND		0.500		ug/L			08/28/15 19:52	1
Carbon tetrachloride	**5.62**		0.500		ug/L			08/28/15 19:52	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
Chloroethane	ND		0.500		ug/L			08/28/15 19:52	1
Chloroform	**315**		2.50		ug/L			08/31/15 07:17	5
Chloromethane	ND		0.500		ug/L			08/28/15 19:52	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 19:52	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 19:52	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 19:52	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 19:52	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 19:52	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 19:52	1
Dibromomethane	ND		0.500		ug/L			08/28/15 19:52	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 19:52	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 19:52	1
1,2-Dichloroethane	**0.924**		0.500		ug/L			08/28/15 19:52	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 19:52	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 19:52	1
1,2-Dichloropropane	**11.1**		0.500		ug/L			08/28/15 19:52	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 19:52	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 19:52	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 19:52	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 19:52	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 19:52	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 19:52	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 19:52	1
Naphthalene	ND		5.00		ug/L			08/28/15 19:52	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
o-Xylene	ND		0.500		ug/L			08/28/15 19:52	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 19:52	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
Styrene	ND		0.500		ug/L			08/28/15 19:52	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 19:52	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 19:52	1
Tetrachloroethene	**0.936**		0.500		ug/L			08/28/15 19:52	1
Toluene	ND		0.500		ug/L			08/28/15 19:52	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 19:52	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 19:52	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-36D

Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-18

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 19:52	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 19:52	1
Trichloroethene	**2.85**		0.500		ug/L			08/28/15 19:52	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 19:52	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 19:52	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 19:52	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 19:52	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*08/28/15 19:52*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/31/15 07:17*	*5*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*08/28/15 19:52*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*08/31/15 07:17*	*5*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*08/28/15 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/31/15 07:17*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/28/15 19:52*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/31/15 07:17*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**31.2**		10.0		ug/L		08/28/15 08:47	08/28/15 16:30	1
Barium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:30	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:30	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:30	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 16:30	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:30	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:21	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-62

Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-19

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 20:20	1
Bromobenzene	ND		0.500		ug/L			08/28/15 20:20	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 20:20	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 20:20	1
Bromoform	ND		0.500		ug/L			08/28/15 20:20	1
Bromomethane	ND		0.500		ug/L			08/28/15 20:20	1
Carbon tetrachloride	**5.67**		0.500		ug/L			08/28/15 20:20	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
Chloroethane	ND		0.500		ug/L			08/28/15 20:20	1
Chloroform	**311**		2.50		ug/L			08/31/15 07:45	5
Chloromethane	ND		0.500		ug/L			08/28/15 20:20	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 20:20	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 20:20	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 20:20	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 20:20	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 20:20	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 20:20	1
Dibromomethane	ND		0.500		ug/L			08/28/15 20:20	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 20:20	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 20:20	1
1,2-Dichloroethane	**0.956**		0.500		ug/L			08/28/15 20:20	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 20:20	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 20:20	1
1,2-Dichloropropane	**10.9**		0.500		ug/L			08/28/15 20:20	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 20:20	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 20:20	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 20:20	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 20:20	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 20:20	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 20:20	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 20:20	1
Naphthalene	ND		5.00		ug/L			08/28/15 20:20	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
o-Xylene	ND		0.500		ug/L			08/28/15 20:20	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 20:20	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
Styrene	ND		0.500		ug/L			08/28/15 20:20	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 20:20	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 20:20	1
Tetrachloroethene	**0.927**		0.500		ug/L			08/28/15 20:20	1
Toluene	ND		0.500		ug/L			08/28/15 20:20	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 20:20	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 20:20	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-62

Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-19

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 20:20	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 20:20	1
Trichloroethene	**2.75**		0.500		ug/L			08/28/15 20:20	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 20:20	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 20:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 20:20	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 20:20	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 20:20	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*08/28/15 20:20*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*08/31/15 07:45*	*5*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*08/28/15 20:20*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*08/31/15 07:45*	*5*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/28/15 20:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/31/15 07:45*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 20:20*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*08/31/15 07:45*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**33.0**		10.0		ug/L		08/28/15 08:47	08/28/15 16:44	1
Barium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:44	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:44	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:44	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 16:44	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:44	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:23	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-63

Date Collected: 08/21/15 16:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-20

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 13:21	1
Bromobenzene	ND		0.500		ug/L			08/28/15 13:21	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 13:21	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 13:21	1
Bromoform	ND		0.500		ug/L			08/28/15 13:21	1
Bromomethane	ND		0.500		ug/L			08/28/15 13:21	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 13:21	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
Chloroethane	ND		0.500		ug/L			08/28/15 13:21	1
Chloroform	ND		0.500		ug/L			08/28/15 13:21	1
Chloromethane	ND		0.500		ug/L			08/28/15 13:21	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 13:21	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 13:21	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 13:21	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 13:21	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 13:21	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 13:21	1
Dibromomethane	ND		0.500		ug/L			08/28/15 13:21	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 13:21	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 13:21	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 13:21	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 13:21	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 13:21	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 13:21	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 13:21	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 13:21	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 13:21	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 13:21	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 13:21	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 13:21	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 13:21	1
Naphthalene	ND		5.00		ug/L			08/28/15 13:21	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
o-Xylene	ND		0.500		ug/L			08/28/15 13:21	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 13:21	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
Styrene	ND		0.500		ug/L			08/28/15 13:21	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 13:21	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 13:21	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 13:21	1
Toluene	ND		0.500		ug/L			08/28/15 13:21	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 13:21	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 13:21	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-63

Date Collected: 08/21/15 16:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-20

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 13:21	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 13:21	1
Trichloroethene	ND		0.500		ug/L			08/28/15 13:21	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 13:21	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 13:21	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 13:21	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 13:21	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/28/15 13:21*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*08/28/15 13:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*08/28/15 13:21*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*08/28/15 13:21*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:49	1
Barium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:49	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 16:49	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:49	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 16:49	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 16:49	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 16:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 16:26	1

Method: SM6200-B - Volatile Organic Compounds

Lab Sample ID: MB 490-277037/7
Matrix: Water
Analysis Batch: 277037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/28/15 12:53	1
Bromobenzene	ND		0.500		ug/L			08/28/15 12:53	1
Bromochloromethane	ND		0.500		ug/L			08/28/15 12:53	1
Bromodichloromethane	ND		0.500		ug/L			08/28/15 12:53	1
Bromoform	ND		0.500		ug/L			08/28/15 12:53	1
Bromomethane	ND		0.500		ug/L			08/28/15 12:53	1
Carbon tetrachloride	ND		0.500		ug/L			08/28/15 12:53	1
Chlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
Chloroethane	ND		0.500		ug/L			08/28/15 12:53	1
Chloroform	ND		0.500		ug/L			08/28/15 12:53	1
Chloromethane	ND		0.500		ug/L			08/28/15 12:53	1
2-Chlorotoluene	ND		0.500		ug/L			08/28/15 12:53	1
4-Chlorotoluene	ND		0.500		ug/L			08/28/15 12:53	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 12:53	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 12:53	1
Dibromochloromethane	ND		0.500		ug/L			08/28/15 12:53	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/28/15 12:53	1
Dibromomethane	ND		0.500		ug/L			08/28/15 12:53	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/28/15 12:53	1
1,1-Dichloroethane	ND		0.500		ug/L			08/28/15 12:53	1
1,2-Dichloroethane	ND		0.500		ug/L			08/28/15 12:53	1
1,1-Dichloroethene	ND		0.500		ug/L			08/28/15 12:53	1
2,2-Dichloropropane	ND		0.500		ug/L			08/28/15 12:53	1
1,2-Dichloropropane	ND		0.500		ug/L			08/28/15 12:53	1
1,3-Dichloropropane	ND		0.500		ug/L			08/28/15 12:53	1
1,1-Dichloropropene	ND		0.500		ug/L			08/28/15 12:53	1
Ethylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
Hexachlorobutadiene	ND		1.00		ug/L			08/28/15 12:53	1
Isopropylbenzene	ND		1.00		ug/L			08/28/15 12:53	1
Methylene Chloride	ND		5.00		ug/L			08/28/15 12:53	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/28/15 12:53	1
m,p-Xylene	ND		0.500		ug/L			08/28/15 12:53	1
Naphthalene	ND		5.00		ug/L			08/28/15 12:53	1
n-Butylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
N-Propylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
o-Xylene	ND		0.500		ug/L			08/28/15 12:53	1
p-Isopropyltoluene	ND		0.500		ug/L			08/28/15 12:53	1
sec-Butylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
Styrene	ND		0.500		ug/L			08/28/15 12:53	1
tert-Butylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 12:53	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/28/15 12:53	1
Tetrachloroethene	ND		0.500		ug/L			08/28/15 12:53	1
Toluene	ND		0.500		ug/L			08/28/15 12:53	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/28/15 12:53	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-277037/7
Matrix: Water
Analysis Batch: 277037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/28/15 12:53	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/28/15 12:53	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/28/15 12:53	1
Trichloroethene	ND		0.500		ug/L			08/28/15 12:53	1
Trichlorofluoromethane	ND		0.500		ug/L			08/28/15 12:53	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/28/15 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/28/15 12:53	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/28/15 12:53	1
Vinyl chloride	ND		0.500		ug/L			08/28/15 12:53	1
Xylenes, Total	ND		1.00		ug/L			08/28/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*08/28/15 12:53*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/28/15 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*08/28/15 12:53*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/28/15 12:53*	*1*

Lab Sample ID: LCS 490-277037/3
Matrix: Water
Analysis Batch: 277037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	53.04		ug/L		106	70 - 130
Bromobenzene	50.0	49.30		ug/L		99	70 - 130
Bromochloromethane	50.0	64.02		ug/L		128	70 - 130
Bromodichloromethane	50.0	53.05		ug/L		106	70 - 130
Bromoform	50.0	51.93		ug/L		104	70 - 130
Bromomethane	50.0	35.39		ug/L		71	60 - 140
Carbon tetrachloride	50.0	54.20		ug/L		108	70 - 130
Chlorobenzene	50.0	49.39		ug/L		99	70 - 130
Chloroethane	50.0	45.80		ug/L		92	60 - 140
Chloroform	50.0	58.15		ug/L		116	70 - 130
Chloromethane	50.0	46.28		ug/L		93	60 - 140
2-Chlorotoluene	50.0	49.85		ug/L		100	70 - 130
4-Chlorotoluene	50.0	51.18		ug/L		102	70 - 130
cis-1,2-Dichloroethene	50.0	46.41		ug/L		93	70 - 130
cis-1,3-Dichloropropene	50.0	53.77		ug/L		108	70 - 130
Dibromochloromethane	50.0	53.09		ug/L		106	70 - 130
Dibromomethane	50.0	52.61		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	52.20		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	51.43		ug/L		103	70 - 130
1,2-Dichlorobenzene	50.0	52.17		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	55.35		ug/L		111	60 - 140
1,1-Dichloroethane	50.0	44.44		ug/L		89	70 - 130
1,2-Dichloroethane	50.0	50.03		ug/L		100	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-277037/3
Matrix: Water
Analysis Batch: 277037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	46.47		ug/L		93	70 - 130
2,2-Dichloropropane	50.0	48.86		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	52.73		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	51.80		ug/L		104	70 - 130
1,1-Dichloropropene	50.0	53.70		ug/L		107	70 - 130
Ethylbenzene	50.0	50.64		ug/L		101	70 - 130
Hexachlorobutadiene	50.0	51.52		ug/L		103	70 - 130
Isopropylbenzene	50.0	52.39		ug/L		105	70 - 130
Methylene Chloride	50.0	47.63		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	47.75		ug/L		95	70 - 130
m,p-Xylene	50.0	51.42		ug/L		103	70 - 130
Naphthalene	50.0	53.32		ug/L		107	70 - 130
n-Butylbenzene	50.0	49.95		ug/L		100	70 - 130
N-Propylbenzene	50.0	50.95		ug/L		102	70 - 130
o-Xylene	50.0	50.27		ug/L		101	70 - 130
p-Isopropyltoluene	50.0	50.10		ug/L		100	70 - 130
sec-Butylbenzene	50.0	53.42		ug/L		107	70 - 130
Styrene	50.0	49.61		ug/L		99	70 - 130
tert-Butylbenzene	50.0	52.52		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.73		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.40		ug/L		105	70 - 130
Tetrachloroethene	50.0	48.35		ug/L		97	70 - 130
Toluene	50.0	48.18		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	46.03		ug/L		92	70 - 130
trans-1,3-Dichloropropene	50.0	54.69		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	55.60		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	50.0	54.35		ug/L		109	70 - 130
1,1,1-Trichloroethane	50.0	51.25		ug/L		102	70 - 130
1,1,2-Trichloroethane	50.0	50.17		ug/L		100	70 - 130
Trichloroethene	50.0	52.70		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	46.57		ug/L		93	60 - 140
1,2,3-Trichloropropane	50.0	54.55		ug/L		109	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.72		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	50.0	52.22		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	50.0	52.99		ug/L		106	70 - 130
Vinyl chloride	50.0	47.99		ug/L		96	60 - 140
Xylenes, Total	100	101.7		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-277037/4
Matrix: Water
Analysis Batch: 277037

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.93		ug/L		106	70 - 130	0	20
Bromobenzene	50.0	48.17		ug/L		96	70 - 130	2	20
Bromochloromethane	50.0	61.22		ug/L		122	70 - 130	4	20
Bromodichloromethane	50.0	53.17		ug/L		106	70 - 130	0	20
Bromoform	50.0	52.40		ug/L		105	70 - 130	1	20
Bromomethane	50.0	32.79		ug/L		66	60 - 140	8	20
Carbon tetrachloride	50.0	53.99		ug/L		108	70 - 130	0	20
Chlorobenzene	50.0	49.36		ug/L		99	70 - 130	0	20
Chloroethane	50.0	45.35		ug/L		91	60 - 140	1	20
Chloroform	50.0	56.92		ug/L		114	70 - 130	2	20
Chloromethane	50.0	43.80		ug/L		88	60 - 140	6	20
2-Chlorotoluene	50.0	48.46		ug/L		97	70 - 130	3	20
4-Chlorotoluene	50.0	50.04		ug/L		100	70 - 130	2	20
cis-1,2-Dichloroethene	50.0	46.41		ug/L		93	70 - 130	0	20
cis-1,3-Dichloropropene	50.0	54.42		ug/L		109	70 - 130	1	20
Dibromochloromethane	50.0	53.34		ug/L		107	70 - 130	0	20
Dibromomethane	50.0	53.40		ug/L		107	70 - 130	1	20
1,3-Dichlorobenzene	50.0	50.26		ug/L		101	70 - 130	4	20
1,4-Dichlorobenzene	50.0	49.70		ug/L		99	70 - 130	3	20
1,2-Dichlorobenzene	50.0	51.43		ug/L		103	70 - 130	1	20
Dichlorodifluoromethane	50.0	55.20		ug/L		110	60 - 140	0	20
1,1-Dichloroethane	50.0	44.58		ug/L		89	70 - 130	0	20
1,2-Dichloroethane	50.0	49.55		ug/L		99	70 - 130	1	20
1,1-Dichloroethene	50.0	46.14		ug/L		92	70 - 130	1	20
2,2-Dichloropropane	50.0	47.95		ug/L		96	70 - 130	2	20
1,2-Dichloropropane	50.0	53.82		ug/L		108	70 - 130	2	20
1,3-Dichloropropane	50.0	52.50		ug/L		105	70 - 130	1	20
1,1-Dichloropropene	50.0	53.63		ug/L		107	70 - 130	0	20
Ethylbenzene	50.0	50.41		ug/L		101	70 - 130	0	20
Hexachlorobutadiene	50.0	49.69		ug/L		99	70 - 130	4	20
Isopropylbenzene	50.0	51.94		ug/L		104	70 - 130	1	20
Methylene Chloride	50.0	47.01		ug/L		94	70 - 130	1	20
Methyl tert-butyl ether	50.0	48.18		ug/L		96	70 - 130	1	20
m,p-Xylene	50.0	50.99		ug/L		102	70 - 130	1	20
Naphthalene	50.0	53.25		ug/L		106	70 - 130	0	20
n-Butylbenzene	50.0	48.39		ug/L		97	70 - 130	3	20
N-Propylbenzene	50.0	49.96		ug/L		100	70 - 130	2	20
o-Xylene	50.0	49.87		ug/L		100	70 - 130	1	20
p-Isopropyltoluene	50.0	48.50		ug/L		97	70 - 130	3	20
sec-Butylbenzene	50.0	52.19		ug/L		104	70 - 130	2	20
Styrene	50.0	48.95		ug/L		98	70 - 130	1	20
tert-Butylbenzene	50.0	51.06		ug/L		102	70 - 130	3	20
1,1,1,2-Tetrachloroethane	50.0	51.89		ug/L		104	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	52.01		ug/L		104	70 - 130	1	20
Tetrachloroethene	50.0	48.56		ug/L		97	70 - 130	0	20
Toluene	50.0	48.46		ug/L		97	70 - 130	1	20
trans-1,2-Dichloroethene	50.0	46.08		ug/L		92	70 - 130	0	20
trans-1,3-Dichloropropene	50.0	55.00		ug/L		110	70 - 130	1	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-277037/4
Matrix: Water
Analysis Batch: 277037

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	53.63		ug/L		107	70 - 130	4	20
1,2,3-Trichlorobenzene	50.0	52.84		ug/L		106	70 - 130	3	20
1,1,1-Trichloroethane	50.0	50.74		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	50.0	50.23		ug/L		100	70 - 130	0	20
Trichloroethene	50.0	52.68		ug/L		105	70 - 130	0	20
Trichlorofluoromethane	50.0	46.34		ug/L		93	60 - 140	1	20
1,2,3-Trichloropropane	50.0	53.18		ug/L		106	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.80		ug/L		98	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.17		ug/L		102	70 - 130	2	20
1,2,4-Trimethylbenzene	50.0	51.38		ug/L		103	70 - 130	3	20
Vinyl chloride	50.0	47.66		ug/L		95	60 - 140	1	20
Xylenes, Total	100	100.9		ug/L		101	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: 490-85985-20 MS
Matrix: Water
Analysis Batch: 277037

Client Sample ID: MW-63
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	53.28		ug/L		107	70 - 130
Bromobenzene	ND		50.0	46.99		ug/L		94	70 - 130
Bromochloromethane	ND		50.0	64.38		ug/L		129	70 - 130
Bromodichloromethane	ND		50.0	53.02		ug/L		106	70 - 130
Bromoform	ND		50.0	51.58		ug/L		103	70 - 130
Bromomethane	ND		50.0	39.63		ug/L		79	60 - 140
Carbon tetrachloride	ND		50.0	57.39		ug/L		115	70 - 130
Chlorobenzene	ND		50.0	51.73		ug/L		103	70 - 130
Chloroethane	ND		50.0	52.91		ug/L		106	60 - 140
Chloroform	ND		50.0	59.41		ug/L		118	70 - 130
Chloromethane	ND		50.0	50.10		ug/L		100	60 - 140
2-Chlorotoluene	ND		50.0	48.34		ug/L		97	70 - 130
4-Chlorotoluene	ND		50.0	50.67		ug/L		101	70 - 130
cis-1,2-Dichloroethene	ND		50.0	49.99		ug/L		100	70 - 130
cis-1,3-Dichloropropene	ND		50.0	50.07		ug/L		100	70 - 130
Dibromochloromethane	ND		50.0	53.24		ug/L		106	70 - 130
Dibromomethane	ND		50.0	52.52		ug/L		105	70 - 130
1,3-Dichlorobenzene	ND		50.0	51.27		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		50.0	50.30		ug/L		101	70 - 130
1,2-Dichlorobenzene	ND		50.0	51.60		ug/L		103	70 - 130
Dichlorodifluoromethane	ND		50.0	60.81		ug/L		122	60 - 140
1,1-Dichloroethane	ND		50.0	49.55		ug/L		99	70 - 130
1,2-Dichloroethane	ND		50.0	49.93		ug/L		100	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-85985-20 MS
Matrix: Water
Analysis Batch: 277037

Client Sample ID: MW-63
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		50.0	53.07		ug/L		106	70 - 130
2,2-Dichloropropane	ND		50.0	51.63		ug/L		103	70 - 130
1,2-Dichloropropane	ND		50.0	53.92		ug/L		108	70 - 130
1,3-Dichloropropane	ND		50.0	51.96		ug/L		104	70 - 130
1,1-Dichloropropene	ND		50.0	52.76		ug/L		106	70 - 130
Ethylbenzene	ND		50.0	52.34		ug/L		105	70 - 130
Hexachlorobutadiene	ND		50.0	50.20		ug/L		100	70 - 130
Isopropylbenzene	ND		50.0	53.98		ug/L		108	70 - 130
Methylene Chloride	ND		50.0	52.12		ug/L		104	70 - 130
Methyl tert-butyl ether	ND		50.0	46.73		ug/L		93	70 - 130
m,p-Xylene	ND		50.0	52.94		ug/L		106	70 - 130
Naphthalene	ND		50.0	45.76		ug/L		92	70 - 130
n-Butylbenzene	ND		50.0	49.11		ug/L		98	70 - 130
N-Propylbenzene	ND		50.0	50.93		ug/L		102	70 - 130
o-Xylene	ND		50.0	51.21		ug/L		102	70 - 130
p-Isopropyltoluene	ND		50.0	49.73		ug/L		99	70 - 130
sec-Butylbenzene	ND		50.0	53.97		ug/L		108	70 - 130
Styrene	ND		50.0	50.69		ug/L		101	70 - 130
tert-Butylbenzene	ND		50.0	52.59		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	ND		50.0	52.67		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		50.0	49.45		ug/L		99	70 - 130
Tetrachloroethene	ND		50.0	51.61		ug/L		103	70 - 130
Toluene	ND		50.0	49.98		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		50.0	51.19		ug/L		102	70 - 130
trans-1,3-Dichloropropene	ND		50.0	52.46		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	ND		50.0	48.96		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	ND		50.0	48.84		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		50.0	52.83		ug/L		106	70 - 130
1,1,2-Trichloroethane	ND		50.0	50.75		ug/L		101	70 - 130
Trichloroethene	ND		50.0	53.60		ug/L		107	70 - 130
Trichlorofluoromethane	ND		50.0	56.85		ug/L		114	60 - 140
1,2,3-Trichloropropane	ND		50.0	51.26		ug/L		103	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	57.79		ug/L		116	70 - 130
1,3,5-Trimethylbenzene	ND		50.0	51.84		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	ND		50.0	51.78		ug/L		104	70 - 130
Vinyl chloride	ND		50.0	55.29		ug/L		111	60 - 140
Xylenes, Total	ND		100	104.2		ug/L		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-85985-20 MSD
Matrix: Water
Analysis Batch: 277037

Client Sample ID: MW-63
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	50.48		ug/L		101	70 - 130	5	20
Bromobenzene	ND		50.0	44.26		ug/L		89	70 - 130	6	20
Bromochloromethane	ND		50.0	62.76		ug/L		126	70 - 130	3	20
Bromodichloromethane	ND		50.0	50.64		ug/L		101	70 - 130	5	20
Bromoform	ND		50.0	49.92		ug/L		100	70 - 130	3	20
Bromomethane	ND		50.0	38.23		ug/L		76	60 - 140	4	20
Carbon tetrachloride	ND		50.0	52.91		ug/L		106	70 - 130	8	20
Chlorobenzene	ND		50.0	48.54		ug/L		97	70 - 130	6	20
Chloroethane	ND		50.0	47.47		ug/L		95	60 - 140	11	20
Chloroform	ND		50.0	56.22		ug/L		112	70 - 130	6	20
Chloromethane	ND		50.0	46.18		ug/L		92	60 - 140	8	20
2-Chlorotoluene	ND		50.0	45.51		ug/L		91	70 - 130	6	20
4-Chlorotoluene	ND		50.0	46.98		ug/L		94	70 - 130	8	20
cis-1,2-Dichloroethene	ND		50.0	47.15		ug/L		94	70 - 130	6	20
cis-1,3-Dichloropropene	ND		50.0	48.59		ug/L		97	70 - 130	3	20
Dibromochloromethane	ND		50.0	51.43		ug/L		103	70 - 130	3	20
Dibromomethane	ND		50.0	50.86		ug/L		102	70 - 130	3	20
1,3-Dichlorobenzene	ND		50.0	48.25		ug/L		97	70 - 130	6	20
1,4-Dichlorobenzene	ND		50.0	47.41		ug/L		95	70 - 130	6	20
1,2-Dichlorobenzene	ND		50.0	48.51		ug/L		97	70 - 130	6	20
Dichlorodifluoromethane	ND		50.0	56.04		ug/L		112	60 - 140	8	20
1,1-Dichloroethane	ND		50.0	45.97		ug/L		92	70 - 130	7	20
1,2-Dichloroethane	ND		50.0	47.74		ug/L		95	70 - 130	4	20
1,1-Dichloroethene	ND		50.0	47.99		ug/L		96	70 - 130	10	20
2,2-Dichloropropane	ND		50.0	48.07		ug/L		96	70 - 130	7	20
1,2-Dichloropropane	ND		50.0	51.13		ug/L		102	70 - 130	5	20
1,3-Dichloropropane	ND		50.0	49.91		ug/L		100	70 - 130	4	20
1,1-Dichloropropene	ND		50.0	50.14		ug/L		100	70 - 130	5	20
Ethylbenzene	ND		50.0	49.30		ug/L		99	70 - 130	6	20
Hexachlorobutadiene	ND		50.0	52.91		ug/L		106	70 - 130	5	20
Isopropylbenzene	ND		50.0	51.58		ug/L		103	70 - 130	5	20
Methylene Chloride	ND		50.0	48.52		ug/L		97	70 - 130	7	20
Methyl tert-butyl ether	ND		50.0	45.31		ug/L		91	70 - 130	3	20
m,p-Xylene	ND		50.0	49.54		ug/L		99	70 - 130	7	20
Naphthalene	ND		50.0	46.77		ug/L		94	70 - 130	2	20
n-Butylbenzene	ND		50.0	47.92		ug/L		96	70 - 130	2	20
N-Propylbenzene	ND		50.0	47.25		ug/L		95	70 - 130	7	20
o-Xylene	ND		50.0	48.90		ug/L		98	70 - 130	5	20
p-Isopropyltoluene	ND		50.0	47.00		ug/L		94	70 - 130	6	20
sec-Butylbenzene	ND		50.0	51.21		ug/L		102	70 - 130	5	20
Styrene	ND		50.0	48.10		ug/L		96	70 - 130	5	20
tert-Butylbenzene	ND		50.0	49.21		ug/L		98	70 - 130	7	20
1,1,1,2-Tetrachloroethane	ND		50.0	50.82		ug/L		102	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		50.0	46.87		ug/L		94	70 - 130	5	20
Tetrachloroethene	ND		50.0	48.03		ug/L		96	70 - 130	7	20
Toluene	ND		50.0	47.26		ug/L		95	70 - 130	6	20
trans-1,2-Dichloroethene	ND		50.0	47.47		ug/L		95	70 - 130	8	20
trans-1,3-Dichloropropene	ND		50.0	50.36		ug/L		101	70 - 130	4	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-85985-20 MSD
Matrix: Water
Analysis Batch: 277037

Client Sample ID: MW-63
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		50.0	50.42		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		50.0	50.43		ug/L		101	70 - 130	3	20
1,1,1-Trichloroethane	ND		50.0	49.23		ug/L		98	70 - 130	7	20
1,1,2-Trichloroethane	ND		50.0	48.63		ug/L		97	70 - 130	4	20
Trichloroethene	ND		50.0	50.94		ug/L		102	70 - 130	5	20
Trichlorofluoromethane	ND		50.0	50.33		ug/L		101	60 - 140	12	20
1,2,3-Trichloropropane	ND		50.0	48.52		ug/L		97	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	52.23		ug/L		104	70 - 130	10	20
1,3,5-Trimethylbenzene	ND		50.0	48.30		ug/L		97	70 - 130	7	20
1,2,4-Trimethylbenzene	ND		50.0	48.69		ug/L		97	70 - 130	6	20
Vinyl chloride	ND		50.0	50.48		ug/L		101	60 - 140	9	20
Xylenes, Total	ND		100	98.44		ug/L		98	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 490-277635/7
Matrix: Water
Analysis Batch: 277635

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 03:35	1
Bromobenzene	ND		0.500		ug/L			08/31/15 03:35	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 03:35	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 03:35	1
Bromoform	ND		0.500		ug/L			08/31/15 03:35	1
Bromomethane	ND		0.500		ug/L			08/31/15 03:35	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 03:35	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
Chloroethane	ND		0.500		ug/L			08/31/15 03:35	1
Chloroform	ND		0.500		ug/L			08/31/15 03:35	1
Chloromethane	ND		0.500		ug/L			08/31/15 03:35	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 03:35	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 03:35	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 03:35	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 03:35	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 03:35	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 03:35	1
Dibromomethane	ND		0.500		ug/L			08/31/15 03:35	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 03:35	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 03:35	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-277635/7
Matrix: Water
Analysis Batch: 277635

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 03:35	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 03:35	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 03:35	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 03:35	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 03:35	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 03:35	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 03:35	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 03:35	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 03:35	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 03:35	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 03:35	1
Naphthalene	ND		5.00		ug/L			08/31/15 03:35	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
o-Xylene	ND		0.500		ug/L			08/31/15 03:35	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 03:35	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
Styrene	ND		0.500		ug/L			08/31/15 03:35	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 03:35	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 03:35	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 03:35	1
Toluene	ND		0.500		ug/L			08/31/15 03:35	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 03:35	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 03:35	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 03:35	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 03:35	1
Trichloroethene	ND		0.500		ug/L			08/31/15 03:35	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 03:35	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 03:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 03:35	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 03:35	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 03:35	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 03:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*08/31/15 03:35*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*08/31/15 03:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/31/15 03:35*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/31/15 03:35*	*1*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-277635/3
Matrix: Water
Analysis Batch: 277635

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.36		ug/L		111	70 - 130
Bromobenzene	50.0	48.58		ug/L		97	70 - 130
Bromochloromethane	50.0	65.62	*	ug/L		131	70 - 130
Bromodichloromethane	50.0	56.31		ug/L		113	70 - 130
Bromoform	50.0	57.85		ug/L		116	70 - 130
Bromomethane	50.0	36.41		ug/L		73	60 - 140
Carbon tetrachloride	50.0	59.80		ug/L		120	70 - 130
Chlorobenzene	50.0	52.32		ug/L		105	70 - 130
Chloroethane	50.0	51.29		ug/L		103	60 - 140
Chloroform	50.0	61.28		ug/L		123	70 - 130
Chloromethane	50.0	45.39		ug/L		91	60 - 140
2-Chlorotoluene	50.0	48.44		ug/L		97	70 - 130
4-Chlorotoluene	50.0	50.66		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	52.48		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	54.27		ug/L		109	70 - 130
Dibromochloromethane	50.0	55.92		ug/L		112	70 - 130
Dibromomethane	50.0	55.80		ug/L		112	70 - 130
1,3-Dichlorobenzene	50.0	51.90		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	51.16		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	52.90		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	55.49		ug/L		111	60 - 140
1,1-Dichloroethane	50.0	52.00		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	52.50		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	55.70		ug/L		111	70 - 130
2,2-Dichloropropane	50.0	47.29		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	56.85		ug/L		114	70 - 130
1,3-Dichloropropane	50.0	54.02		ug/L		108	70 - 130
1,1-Dichloropropene	50.0	54.73		ug/L		109	70 - 130
Ethylbenzene	50.0	52.90		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	48.78		ug/L		98	70 - 130
Isopropylbenzene	50.0	55.29		ug/L		111	70 - 130
Methylene Chloride	50.0	57.16		ug/L		114	70 - 130
Methyl tert-butyl ether	50.0	52.70		ug/L		105	70 - 130
m,p-Xylene	50.0	53.52		ug/L		107	70 - 130
Naphthalene	50.0	51.45		ug/L		103	70 - 130
n-Butylbenzene	50.0	45.13		ug/L		90	70 - 130
N-Propylbenzene	50.0	50.46		ug/L		101	70 - 130
o-Xylene	50.0	52.57		ug/L		105	70 - 130
p-Isopropyltoluene	50.0	48.81		ug/L		98	70 - 130
sec-Butylbenzene	50.0	52.79		ug/L		106	70 - 130
Styrene	50.0	52.43		ug/L		105	70 - 130
tert-Butylbenzene	50.0	52.49		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.17		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.72		ug/L		103	70 - 130
Tetrachloroethene	50.0	51.08		ug/L		102	70 - 130
Toluene	50.0	51.23		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	56.36		ug/L		113	70 - 130
trans-1,3-Dichloropropene	50.0	53.29		ug/L		107	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-277635/3
Matrix: Water
Analysis Batch: 277635

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	53.49		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	50.0	51.02		ug/L		102	70 - 130
1,1,1-Trichloroethane	50.0	54.46		ug/L		109	70 - 130
1,1,2-Trichloroethane	50.0	52.73		ug/L		105	70 - 130
Trichloroethene	50.0	58.10		ug/L		116	70 - 130
Trichlorofluoromethane	50.0	53.53		ug/L		107	60 - 140
1,2,3-Trichloropropane	50.0	53.73		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.66		ug/L		119	70 - 130
1,3,5-Trimethylbenzene	50.0	51.76		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	50.0	51.89		ug/L		104	70 - 130
Vinyl chloride	50.0	52.85		ug/L		106	60 - 140
Xylenes, Total	100	106.1		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 490-277635/4
Matrix: Water
Analysis Batch: 277635

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	55.00		ug/L		110	70 - 130	1	20
Bromobenzene	50.0	49.92		ug/L		100	70 - 130	3	20
Bromochloromethane	50.0	66.54	*	ug/L		133	70 - 130	1	20
Bromodichloromethane	50.0	55.70		ug/L		111	70 - 130	1	20
Bromoform	50.0	58.20		ug/L		116	70 - 130	1	20
Bromomethane	50.0	30.97		ug/L		62	60 - 140	16	20
Carbon tetrachloride	50.0	59.23		ug/L		118	70 - 130	1	20
Chlorobenzene	50.0	51.30		ug/L		103	70 - 130	2	20
Chloroethane	50.0	48.68		ug/L		97	60 - 140	5	20
Chloroform	50.0	61.33		ug/L		123	70 - 130	0	20
Chloromethane	50.0	41.57		ug/L		83	60 - 140	9	20
2-Chlorotoluene	50.0	49.79		ug/L		100	70 - 130	3	20
4-Chlorotoluene	50.0	51.52		ug/L		103	70 - 130	2	20
cis-1,2-Dichloroethene	50.0	50.84		ug/L		102	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	54.21		ug/L		108	70 - 130	0	20
Dibromochloromethane	50.0	55.18		ug/L		110	70 - 130	1	20
Dibromomethane	50.0	55.76		ug/L		112	70 - 130	0	20
1,3-Dichlorobenzene	50.0	52.77		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	50.0	52.49		ug/L		105	70 - 130	3	20
1,2-Dichlorobenzene	50.0	54.33		ug/L		109	70 - 130	3	20
Dichlorodifluoromethane	50.0	55.79		ug/L		112	60 - 140	1	20
1,1-Dichloroethane	50.0	49.88		ug/L		100	70 - 130	4	20
1,2-Dichloroethane	50.0	52.27		ug/L		105	70 - 130	0	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-277635/4
Matrix: Water
Analysis Batch: 277635

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			50.0	53.36		ug/L		107	70 - 130	4	20
2,2-Dichloropropane			50.0	45.10		ug/L		90	70 - 130	5	20
1,2-Dichloropropane			50.0	57.24		ug/L		114	70 - 130	1	20
1,3-Dichloropropane			50.0	54.28		ug/L		109	70 - 130	0	20
1,1-Dichloropropene			50.0	54.25		ug/L		108	70 - 130	1	20
Ethylbenzene			50.0	51.86		ug/L		104	70 - 130	2	20
Hexachlorobutadiene			50.0	51.36		ug/L		103	70 - 130	5	20
Isopropylbenzene			50.0	54.25		ug/L		108	70 - 130	2	20
Methylene Chloride			50.0	53.27		ug/L		107	70 - 130	7	20
Methyl tert-butyl ether			50.0	52.01		ug/L		104	70 - 130	1	20
m,p-Xylene			50.0	52.74		ug/L		105	70 - 130	1	20
Naphthalene			50.0	49.88		ug/L		100	70 - 130	3	20
n-Butylbenzene			50.0	45.68		ug/L		91	70 - 130	1	20
N-Propylbenzene			50.0	50.92		ug/L		102	70 - 130	1	20
o-Xylene			50.0	51.82		ug/L		104	70 - 130	1	20
p-Isopropyltoluene			50.0	49.72		ug/L		99	70 - 130	2	20
sec-Butylbenzene			50.0	53.55		ug/L		107	70 - 130	1	20
Styrene			50.0	51.75		ug/L		103	70 - 130	1	20
tert-Butylbenzene			50.0	52.65		ug/L		105	70 - 130	0	20
1,1,1,2-Tetrachloroethane			50.0	54.50		ug/L		109	70 - 130	1	20
1,1,2,2-Tetrachloroethane			50.0	53.91		ug/L		108	70 - 130	4	20
Tetrachloroethene			50.0	49.76		ug/L		100	70 - 130	3	20
Toluene			50.0	50.24		ug/L		100	70 - 130	2	20
trans-1,2-Dichloroethene			50.0	53.53		ug/L		107	70 - 130	5	20
trans-1,3-Dichloropropene			50.0	52.62		ug/L		105	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	54.90		ug/L		110	70 - 130	3	20
1,2,3-Trichlorobenzene			50.0	54.85		ug/L		110	70 - 130	7	20
1,1,1-Trichloroethane			50.0	54.11		ug/L		108	70 - 130	1	20
1,1,2-Trichloroethane			50.0	52.81		ug/L		106	70 - 130	0	20
Trichloroethene			50.0	56.23		ug/L		112	70 - 130	3	20
Trichlorofluoromethane			50.0	51.91		ug/L		104	60 - 140	3	20
1,2,3-Trichloropropane			50.0	57.07		ug/L		114	70 - 130	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	56.72		ug/L		113	70 - 130	5	20
1,3,5-Trimethylbenzene			50.0	52.48		ug/L		105	70 - 130	1	20
1,2,4-Trimethylbenzene			50.0	53.02		ug/L		106	70 - 130	2	20
Vinyl chloride			50.0	51.92		ug/L		104	60 - 140	2	20
Xylenes, Total			100	104.6		ug/L		105	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-277838/7
Matrix: Water
Analysis Batch: 277838

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			08/31/15 16:26	1
Bromobenzene	ND		0.500		ug/L			08/31/15 16:26	1
Bromochloromethane	ND		0.500		ug/L			08/31/15 16:26	1
Bromodichloromethane	ND		0.500		ug/L			08/31/15 16:26	1
Bromoform	ND		0.500		ug/L			08/31/15 16:26	1
Bromomethane	ND		0.500		ug/L			08/31/15 16:26	1
Carbon tetrachloride	ND		0.500		ug/L			08/31/15 16:26	1
Chlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
Chloroethane	ND		0.500		ug/L			08/31/15 16:26	1
Chloroform	ND		0.500		ug/L			08/31/15 16:26	1
Chloromethane	ND		0.500		ug/L			08/31/15 16:26	1
2-Chlorotoluene	ND		0.500		ug/L			08/31/15 16:26	1
4-Chlorotoluene	ND		0.500		ug/L			08/31/15 16:26	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 16:26	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 16:26	1
Dibromochloromethane	ND		0.500		ug/L			08/31/15 16:26	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			08/31/15 16:26	1
Dibromomethane	ND		0.500		ug/L			08/31/15 16:26	1
1,3-Dichlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,4-Dichlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,2-Dichlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
Dichlorodifluoromethane	ND		0.500		ug/L			08/31/15 16:26	1
1,1-Dichloroethane	ND		0.500		ug/L			08/31/15 16:26	1
1,2-Dichloroethane	ND		0.500		ug/L			08/31/15 16:26	1
1,1-Dichloroethene	ND		0.500		ug/L			08/31/15 16:26	1
2,2-Dichloropropane	ND		0.500		ug/L			08/31/15 16:26	1
1,2-Dichloropropane	ND		0.500		ug/L			08/31/15 16:26	1
1,3-Dichloropropane	ND		0.500		ug/L			08/31/15 16:26	1
1,1-Dichloropropene	ND		0.500		ug/L			08/31/15 16:26	1
Ethylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
Hexachlorobutadiene	ND		1.00		ug/L			08/31/15 16:26	1
Isopropylbenzene	ND		1.00		ug/L			08/31/15 16:26	1
Methylene Chloride	ND		5.00		ug/L			08/31/15 16:26	1
Methyl tert-butyl ether	ND		0.500		ug/L			08/31/15 16:26	1
m,p-Xylene	ND		0.500		ug/L			08/31/15 16:26	1
Naphthalene	ND		5.00		ug/L			08/31/15 16:26	1
n-Butylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
N-Propylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
o-Xylene	ND		0.500		ug/L			08/31/15 16:26	1
p-Isopropyltoluene	ND		0.500		ug/L			08/31/15 16:26	1
sec-Butylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
Styrene	ND		0.500		ug/L			08/31/15 16:26	1
tert-Butylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 16:26	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			08/31/15 16:26	1
Tetrachloroethene	ND		0.500		ug/L			08/31/15 16:26	1
Toluene	ND		0.500		ug/L			08/31/15 16:26	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			08/31/15 16:26	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-277838/7
Matrix: Water
Analysis Batch: 277838

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.500		ug/L			08/31/15 16:26	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,1,1-Trichloroethane	ND		0.500		ug/L			08/31/15 16:26	1
1,1,2-Trichloroethane	ND		0.500		ug/L			08/31/15 16:26	1
Trichloroethene	ND		0.500		ug/L			08/31/15 16:26	1
Trichlorofluoromethane	ND		0.500		ug/L			08/31/15 16:26	1
1,2,3-Trichloropropane	ND		0.500		ug/L			08/31/15 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			08/31/15 16:26	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			08/31/15 16:26	1
Vinyl chloride	ND		0.500		ug/L			08/31/15 16:26	1
Xylenes, Total	ND		1.00		ug/L			08/31/15 16:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/31/15 16:26*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*08/31/15 16:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/31/15 16:26*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/31/15 16:26*	*1*

Lab Sample ID: LCS 490-277838/3
Matrix: Water
Analysis Batch: 277838

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.30		ug/L		97	70 - 130
Bromobenzene	50.0	49.86		ug/L		100	70 - 130
Bromochloromethane	50.0	60.03		ug/L		120	70 - 130
Bromodichloromethane	50.0	48.89		ug/L		98	70 - 130
Bromoform	50.0	52.98		ug/L		106	70 - 130
Bromomethane	50.0	42.96		ug/L		86	60 - 140
Carbon tetrachloride	50.0	50.42		ug/L		101	70 - 130
Chlorobenzene	50.0	48.88		ug/L		98	70 - 130
Chloroethane	50.0	43.28		ug/L		87	60 - 140
Chloroform	50.0	53.31		ug/L		107	70 - 130
Chloromethane	50.0	49.09		ug/L		98	60 - 140
2-Chlorotoluene	50.0	49.82		ug/L		100	70 - 130
4-Chlorotoluene	50.0	51.55		ug/L		103	70 - 130
cis-1,2-Dichloroethene	50.0	51.78		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	52.78		ug/L		106	70 - 130
Dibromochloromethane	50.0	53.22		ug/L		106	70 - 130
Dibromomethane	50.0	50.53		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	52.53		ug/L		105	70 - 130
1,4-Dichlorobenzene	50.0	52.09		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	54.08		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	52.67		ug/L		105	60 - 140
1,1-Dichloroethane	50.0	43.98		ug/L		88	70 - 130
1,2-Dichloroethane	50.0	46.50		ug/L		93	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-277838/3
Matrix: Water
Analysis Batch: 277838

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	46.49		ug/L		93	70 - 130
2,2-Dichloropropane	50.0	51.03		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	48.17		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	52.38		ug/L		105	70 - 130
1,1-Dichloropropene	50.0	48.38		ug/L		97	70 - 130
Ethylbenzene	50.0	49.20		ug/L		98	70 - 130
Hexachlorobutadiene	50.0	51.14		ug/L		102	70 - 130
Isopropylbenzene	50.0	50.33		ug/L		101	70 - 130
Methylene Chloride	50.0	47.21		ug/L		94	70 - 130
Methyl tert-butyl ether	50.0	47.02		ug/L		94	70 - 130
m,p-Xylene	50.0	49.97		ug/L		100	70 - 130
Naphthalene	50.0	56.31		ug/L		113	70 - 130
n-Butylbenzene	50.0	47.84		ug/L		96	70 - 130
N-Propylbenzene	50.0	50.12		ug/L		100	70 - 130
o-Xylene	50.0	49.29		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	49.22		ug/L		98	70 - 130
sec-Butylbenzene	50.0	52.15		ug/L		104	70 - 130
Styrene	50.0	49.08		ug/L		98	70 - 130
tert-Butylbenzene	50.0	51.89		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.35		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	55.22		ug/L		110	70 - 130
Tetrachloroethene	50.0	47.18		ug/L		94	70 - 130
Toluene	50.0	47.49		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	45.50		ug/L		91	70 - 130
trans-1,3-Dichloropropene	50.0	53.25		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	50.0	55.25		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	50.0	55.87		ug/L		112	70 - 130
1,1,1-Trichloroethane	50.0	47.05		ug/L		94	70 - 130
1,1,2-Trichloroethane	50.0	51.39		ug/L		103	70 - 130
Trichloroethene	50.0	48.68		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	45.55		ug/L		91	60 - 140
1,2,3-Trichloropropane	50.0	56.85		ug/L		114	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.19		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	52.29		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	50.0	52.65		ug/L		105	70 - 130
Vinyl chloride	50.0	45.68		ug/L		91	60 - 140
Xylenes, Total	100	99.26		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-277838/4
Matrix: Water
Analysis Batch: 277838

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	48.22		ug/L		96	70 - 130	0	20
Bromobenzene	50.0	48.97		ug/L		98	70 - 130	2	20
Bromochloromethane	50.0	60.46		ug/L		121	70 - 130	1	20
Bromodichloromethane	50.0	49.45		ug/L		99	70 - 130	1	20
Bromoform	50.0	54.12		ug/L		108	70 - 130	2	20
Bromomethane	50.0	43.29		ug/L		87	60 - 140	1	20
Carbon tetrachloride	50.0	50.13		ug/L		100	70 - 130	1	20
Chlorobenzene	50.0	48.51		ug/L		97	70 - 130	1	20
Chloroethane	50.0	43.60		ug/L		87	60 - 140	1	20
Chloroform	50.0	53.19		ug/L		106	70 - 130	0	20
Chloromethane	50.0	48.57		ug/L		97	60 - 140	1	20
2-Chlorotoluene	50.0	48.15		ug/L		96	70 - 130	3	20
4-Chlorotoluene	50.0	49.66		ug/L		99	70 - 130	4	20
cis-1,2-Dichloroethene	50.0	50.18		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	51.95		ug/L		104	70 - 130	2	20
Dibromochloromethane	50.0	53.56		ug/L		107	70 - 130	1	20
Dibromomethane	50.0	51.05		ug/L		102	70 - 130	1	20
1,3-Dichlorobenzene	50.0	51.56		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	50.0	50.75		ug/L		101	70 - 130	3	20
1,2-Dichlorobenzene	50.0	52.98		ug/L		106	70 - 130	2	20
Dichlorodifluoromethane	50.0	52.60		ug/L		105	60 - 140	0	20
1,1-Dichloroethane	50.0	43.98		ug/L		88	70 - 130	0	20
1,2-Dichloroethane	50.0	47.11		ug/L		94	70 - 130	1	20
1,1-Dichloroethene	50.0	46.75		ug/L		93	70 - 130	1	20
2,2-Dichloropropane	50.0	48.45		ug/L		97	70 - 130	5	20
1,2-Dichloropropane	50.0	48.91		ug/L		98	70 - 130	2	20
1,3-Dichloropropane	50.0	52.63		ug/L		105	70 - 130	0	20
1,1-Dichloropropene	50.0	48.39		ug/L		97	70 - 130	0	20
Ethylbenzene	50.0	48.64		ug/L		97	70 - 130	1	20
Hexachlorobutadiene	50.0	48.28		ug/L		97	70 - 130	6	20
Isopropylbenzene	50.0	50.06		ug/L		100	70 - 130	1	20
Methylene Chloride	50.0	47.29		ug/L		95	70 - 130	0	20
Methyl tert-butyl ether	50.0	47.49		ug/L		95	70 - 130	1	20
m,p-Xylene	50.0	49.77		ug/L		100	70 - 130	0	20
Naphthalene	50.0	55.38		ug/L		111	70 - 130	2	20
n-Butylbenzene	50.0	46.10		ug/L		92	70 - 130	4	20
N-Propylbenzene	50.0	48.24		ug/L		96	70 - 130	4	20
o-Xylene	50.0	49.10		ug/L		98	70 - 130	0	20
p-Isopropyltoluene	50.0	47.30		ug/L		95	70 - 130	4	20
sec-Butylbenzene	50.0	50.54		ug/L		101	70 - 130	3	20
Styrene	50.0	48.73		ug/L		97	70 - 130	1	20
tert-Butylbenzene	50.0	50.76		ug/L		102	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	50.74		ug/L		101	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	54.30		ug/L		109	70 - 130	2	20
Tetrachloroethene	50.0	46.75		ug/L		93	70 - 130	1	20
Toluene	50.0	47.10		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene	50.0	45.10		ug/L		90	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	53.64		ug/L		107	70 - 130	1	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-277838/4
Matrix: Water
Analysis Batch: 277838

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	54.29		ug/L		109	70 - 130	2	20
1,2,3-Trichlorobenzene	50.0	54.74		ug/L		109	70 - 130	2	20
1,1,1-Trichloroethane	50.0	47.34		ug/L		95	70 - 130	1	20
1,1,2-Trichloroethane	50.0	51.28		ug/L		103	70 - 130	0	20
Trichloroethene	50.0	47.83		ug/L		96	70 - 130	2	20
Trichlorofluoromethane	50.0	45.47		ug/L		91	60 - 140	0	20
1,2,3-Trichloropropane	50.0	57.41		ug/L		115	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.78		ug/L		98	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.57		ug/L		101	70 - 130	3	20
1,2,4-Trimethylbenzene	50.0	51.52		ug/L		103	70 - 130	2	20
Vinyl chloride	50.0	45.76		ug/L		92	60 - 140	0	20
Xylenes, Total	100	98.87		ug/L		99	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-276990/1-A
Matrix: Water
Analysis Batch: 277512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		08/28/15 08:47	08/28/15 14:31	1
Barium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 14:31	1
Cadmium	ND		1.00		ug/L		08/28/15 08:47	08/28/15 14:31	1
Chromium	ND		5.00		ug/L		08/28/15 08:47	08/28/15 14:31	1
Manganese	ND		15.0		ug/L		08/28/15 08:47	08/28/15 14:31	1
Lead	ND		5.00		ug/L		08/28/15 08:47	08/28/15 14:31	1
Selenium	ND		10.0		ug/L		08/28/15 08:47	08/28/15 14:31	1

Lab Sample ID: LCS 490-276990/2-A
Matrix: Water
Analysis Batch: 277512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	46.50		ug/L		93	80 - 120
Barium	2000	2120		ug/L		106	80 - 120
Cadmium	50.0	50.40		ug/L		101	80 - 120
Chromium	200	202.1		ug/L		101	80 - 120
Manganese	500	512.6		ug/L		103	80 - 120
Lead	50.0	52.60		ug/L		105	80 - 120
Selenium	50.0	50.40		ug/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 490-85985-1 MS — **Client Sample ID: MW-34DR**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 277512 — **Prep Batch: 276990**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		50.0	47.70		ug/L		95	75 - 125
Barium	30.2		2000	2139		ug/L		105	75 - 125
Cadmium	ND		50.0	50.00		ug/L		100	75 - 125
Chromium	ND		200	203.4		ug/L		100	75 - 125
Manganese	ND		500	519.8		ug/L		102	75 - 125
Lead	ND		50.0	54.00		ug/L		102	75 - 125
Selenium	ND		50.0	50.40		ug/L		101	75 - 125

Lab Sample ID: 490-85985-1 MSD — **Client Sample ID: MW-34DR**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 277512 — **Prep Batch: 276990**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		50.0	47.80		ug/L		96	75 - 125	0	20
Barium	30.2		2000	2168		ug/L		107	75 - 125	1	20
Cadmium	ND		50.0	50.60		ug/L		101	75 - 125	1	20
Chromium	ND		200	206.4		ug/L		102	75 - 125	1	20
Manganese	ND		500	528.5		ug/L		103	75 - 125	2	20
Lead	ND		50.0	55.20		ug/L		105	75 - 125	2	20
Selenium	ND		50.0	50.70		ug/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-277875/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278012 — **Prep Batch: 277875**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		08/31/15 16:16	08/31/15 22:45	1

Lab Sample ID: LCS 490-277875/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278012 — **Prep Batch: 277875**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.9913		ug/L		99	80 - 120

Lab Sample ID: 490-85780-E-5-H MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278012 — **Prep Batch: 277875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.032		ug/L		103	75 - 125

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 490-85780-E-5-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278012 — **Prep Batch: 277875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.9820		ug/L		98	75 - 125	5	20

Lab Sample ID: MB 490-278244/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278710 — **Prep Batch: 278244**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:12	09/02/15 15:20	1

Lab Sample ID: LCS 490-278244/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278710 — **Prep Batch: 278244**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.9547		ug/L		95	80 - 120

Lab Sample ID: 400-110115-H-5-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278710 — **Prep Batch: 278244**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.025		ug/L		102	75 - 125

Lab Sample ID: 400-110115-H-5-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278710 — **Prep Batch: 278244**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.048		ug/L		105	75 - 125	2	20

QC Association Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

GC/MS VOA

Analysis Batch: 277037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-1	MW-34DR	Total/NA	Water	SM6200-B	
490-85985-5	MW-41S	Total/NA	Water	SM6200-B	
490-85985-6	MW-42S	Total/NA	Water	SM6200-B	
490-85985-7	MW-38	Total/NA	Water	SM6200-B	
490-85985-8	MW-43D	Total/NA	Water	SM6200-B	
490-85985-9	MW-43S	Total/NA	Water	SM6200-B	
490-85985-10	MW-47	Total/NA	Water	SM6200-B	
490-85985-11	MW-12D	Total/NA	Water	SM6200-B	
490-85985-12	MW-35D	Total/NA	Water	SM6200-B	
490-85985-13	MW-11I	Total/NA	Water	SM6200-B	
490-85985-14	MW-16D	Total/NA	Water	SM6200-B	
490-85985-16	MW-41D	Total/NA	Water	SM6200-B	
490-85985-17	MW-42I	Total/NA	Water	SM6200-B	
490-85985-18	MW-36D	Total/NA	Water	SM6200-B	
490-85985-19	MW-62	Total/NA	Water	SM6200-B	
490-85985-20	MW-63	Total/NA	Water	SM6200-B	
490-85985-20 MS	MW-63	Total/NA	Water	SM6200-B	
490-85985-20 MSD	MW-63	Total/NA	Water	SM6200-B	
LCS 490-277037/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-277037/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-277037/7	Method Blank	Total/NA	Water	SM6200-B	

Analysis Batch: 277635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-18	MW-36D	Total/NA	Water	SM6200-B	
490-85985-19	MW-62	Total/NA	Water	SM6200-B	
LCS 490-277635/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-277635/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-277635/7	Method Blank	Total/NA	Water	SM6200-B	

Analysis Batch: 277838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-2	MW-46	Total/NA	Water	SM6200-B	
490-85985-3	MW-45R	Total/NA	Water	SM6200-B	
490-85985-4	MW-41I	Total/NA	Water	SM6200-B	
490-85985-15	MW-35S	Total/NA	Water	SM6200-B	
LCS 490-277838/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-277838/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-277838/7	Method Blank	Total/NA	Water	SM6200-B	

Metals

Prep Batch: 276990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-1	MW-34DR	Total/NA	Water	3010A	
490-85985-1 MS	MW-34DR	Total/NA	Water	3010A	
490-85985-1 MSD	MW-34DR	Total/NA	Water	3010A	
490-85985-2	MW-46	Total/NA	Water	3010A	
490-85985-3	MW-45R	Total/NA	Water	3010A	
490-85985-4	MW-41I	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 276990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-5	MW-41S	Total/NA	Water	3010A	
490-85985-6	MW-42S	Total/NA	Water	3010A	
490-85985-7	MW-38	Total/NA	Water	3010A	
490-85985-8	MW-43D	Total/NA	Water	3010A	
490-85985-9	MW-43S	Total/NA	Water	3010A	
490-85985-10	MW-47	Total/NA	Water	3010A	
490-85985-11	MW-12D	Total/NA	Water	3010A	
490-85985-12	MW-35D	Total/NA	Water	3010A	
490-85985-13	MW-11I	Total/NA	Water	3010A	
490-85985-14	MW-16D	Total/NA	Water	3010A	
490-85985-15	MW-35S	Total/NA	Water	3010A	
490-85985-16	MW-41D	Total/NA	Water	3010A	
490-85985-17	MW-42I	Total/NA	Water	3010A	
490-85985-18	MW-36D	Total/NA	Water	3010A	
490-85985-19	MW-62	Total/NA	Water	3010A	
490-85985-20	MW-63	Total/NA	Water	3010A	
LCS 490-276990/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-276990/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 277512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-1	MW-34DR	Total/NA	Water	6010C	276990
490-85985-1 MS	MW-34DR	Total/NA	Water	6010C	276990
490-85985-1 MSD	MW-34DR	Total/NA	Water	6010C	276990
490-85985-2	MW-46	Total/NA	Water	6010C	276990
490-85985-3	MW-45R	Total/NA	Water	6010C	276990
490-85985-4	MW-41I	Total/NA	Water	6010C	276990
490-85985-5	MW-41S	Total/NA	Water	6010C	276990
490-85985-6	MW-42S	Total/NA	Water	6010C	276990
490-85985-7	MW-38	Total/NA	Water	6010C	276990
490-85985-8	MW-43D	Total/NA	Water	6010C	276990
490-85985-9	MW-43S	Total/NA	Water	6010C	276990
490-85985-10	MW-47	Total/NA	Water	6010C	276990
490-85985-11	MW-12D	Total/NA	Water	6010C	276990
490-85985-12	MW-35D	Total/NA	Water	6010C	276990
490-85985-13	MW-11I	Total/NA	Water	6010C	276990
490-85985-14	MW-16D	Total/NA	Water	6010C	276990
490-85985-15	MW-35S	Total/NA	Water	6010C	276990
490-85985-16	MW-41D	Total/NA	Water	6010C	276990
490-85985-17	MW-42I	Total/NA	Water	6010C	276990
490-85985-18	MW-36D	Total/NA	Water	6010C	276990
490-85985-19	MW-62	Total/NA	Water	6010C	276990
490-85985-20	MW-63	Total/NA	Water	6010C	276990
LCS 490-276990/2-A	Lab Control Sample	Total/NA	Water	6010C	276990
MB 490-276990/1-A	Method Blank	Total/NA	Water	6010C	276990

Prep Batch: 277875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85780-E-5-H MS	Matrix Spike	Total/NA	Water	7470A	
490-85780-E-5-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
490-85985-1	MW-34DR	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 277875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-2	MW-46	Total/NA	Water	7470A	
490-85985-3	MW-45R	Total/NA	Water	7470A	
490-85985-4	MW-41I	Total/NA	Water	7470A	
490-85985-5	MW-41S	Total/NA	Water	7470A	
490-85985-6	MW-42S	Total/NA	Water	7470A	
490-85985-7	MW-38	Total/NA	Water	7470A	
LCS 490-277875/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-277875/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 278012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85780-E-5-H MS	Matrix Spike	Total/NA	Water	7470A	277875
490-85780-E-5-I MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	277875
490-85985-1	MW-34DR	Total/NA	Water	7470A	277875
490-85985-2	MW-46	Total/NA	Water	7470A	277875
490-85985-3	MW-45R	Total/NA	Water	7470A	277875
490-85985-4	MW-41I	Total/NA	Water	7470A	277875
490-85985-5	MW-41S	Total/NA	Water	7470A	277875
490-85985-6	MW-42S	Total/NA	Water	7470A	277875
490-85985-7	MW-38	Total/NA	Water	7470A	277875
LCS 490-277875/2-A	Lab Control Sample	Total/NA	Water	7470A	277875
MB 490-277875/1-A	Method Blank	Total/NA	Water	7470A	277875

Prep Batch: 278244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-110115-H-5-A MS	Matrix Spike	Total/NA	Water	7470A	
400-110115-H-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
490-85985-8	MW-43D	Total/NA	Water	7470A	
490-85985-9	MW-43S	Total/NA	Water	7470A	
490-85985-10	MW-47	Total/NA	Water	7470A	
490-85985-11	MW-12D	Total/NA	Water	7470A	
490-85985-12	MW-35D	Total/NA	Water	7470A	
490-85985-13	MW-11I	Total/NA	Water	7470A	
490-85985-14	MW-16D	Total/NA	Water	7470A	
490-85985-15	MW-35S	Total/NA	Water	7470A	
490-85985-16	MW-41D	Total/NA	Water	7470A	
490-85985-17	MW-42I	Total/NA	Water	7470A	
490-85985-18	MW-36D	Total/NA	Water	7470A	
490-85985-19	MW-62	Total/NA	Water	7470A	
490-85985-20	MW-63	Total/NA	Water	7470A	
LCS 490-278244/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-278244/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 278710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-110115-H-5-A MS	Matrix Spike	Total/NA	Water	7470A	278244
400-110115-H-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	278244
490-85985-8	MW-43D	Total/NA	Water	7470A	278244
490-85985-9	MW-43S	Total/NA	Water	7470A	278244
490-85985-10	MW-47	Total/NA	Water	7470A	278244
490-85985-11	MW-12D	Total/NA	Water	7470A	278244

Metals (Continued)

Analysis Batch: 278710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-85985-12	MW-35D	Total/NA	Water	7470A	278244
490-85985-13	MW-11I	Total/NA	Water	7470A	278244
490-85985-14	MW-16D	Total/NA	Water	7470A	278244
490-85985-15	MW-35S	Total/NA	Water	7470A	278244
490-85985-16	MW-41D	Total/NA	Water	7470A	278244
490-85985-17	MW-42I	Total/NA	Water	7470A	278244
490-85985-18	MW-36D	Total/NA	Water	7470A	278244
490-85985-19	MW-62	Total/NA	Water	7470A	278244
490-85985-20	MW-63	Total/NA	Water	7470A	278244
LCS 490-278244/2-A	Lab Control Sample	Total/NA	Water	7470A	278244
MB 490-278244/1-A	Method Blank	Total/NA	Water	7470A	278244

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-34DR — Lab Sample ID: 490-85985-1

Date Collected: 08/18/15 10:15
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 20:48	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 14:39	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:34	BLG	TAL NSH

Client Sample ID: MW-46 — Lab Sample ID: 490-85985-2

Date Collected: 08/18/15 11:15
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277838	08/31/15 17:23	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:11	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:36	BLG	TAL NSH

Client Sample ID: MW-45R — Lab Sample ID: 490-85985-3

Date Collected: 08/18/15 12:05
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277838	08/31/15 18:19	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:15	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:39	BLG	TAL NSH

Client Sample ID: MW-41I — Lab Sample ID: 490-85985-4

Date Collected: 08/18/15 13:58
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277838	08/31/15 18:47	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:19	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:41	BLG	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-41S
Date Collected: 08/18/15 14:25
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 13:49	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:24	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:44	BLG	TAL NSH

Client Sample ID: MW-42S
Date Collected: 08/18/15 15:13
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 14:17	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:28	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:51	BLG	TAL NSH

Client Sample ID: MW-38
Date Collected: 08/19/15 10:16
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 14:45	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:32	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	277875	08/31/15 16:16	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278012	08/31/15 23:53	BLG	TAL NSH

Client Sample ID: MW-43D
Date Collected: 08/19/15 11:56
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 15:13	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:37	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 15:52	RDF	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-43S
Date Collected: 08/19/15 12:36
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 15:40	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:51	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 15:54	RDF	TAL NSH

Client Sample ID: MW-47
Date Collected: 08/19/15 14:50
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 16:08	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 15:55	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 15:57	RDF	TAL NSH

Client Sample ID: MW-12D
Date Collected: 08/20/15 08:55
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 16:37	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:00	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 15:59	RDF	TAL NSH

Client Sample ID: MW-35D
Date Collected: 08/20/15 12:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 17:05	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:04	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:01	RDF	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-11I — Lab Sample ID: 490-85985-13

Date Collected: 08/20/15 14:55
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 17:33	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:08	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:04	RDF	TAL NSH

Client Sample ID: MW-16D — Lab Sample ID: 490-85985-14

Date Collected: 08/21/15 08:50
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 18:01	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:13	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:06	RDF	TAL NSH

Client Sample ID: MW-35S — Lab Sample ID: 490-85985-15

Date Collected: 08/21/15 09:15
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277838	08/31/15 17:51	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:17	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:09	RDF	TAL NSH

Client Sample ID: MW-41D — Lab Sample ID: 490-85985-16

Date Collected: 08/21/15 11:00
Date Received: 08/25/15 10:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 18:56	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:21	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:11	RDF	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Client Sample ID: MW-42I
Date Collected: 08/21/15 12:02
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 19:24	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:26	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:18	RDF	TAL NSH

Client Sample ID: MW-36D
Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 19:52	PS	TAL NSH
Total/NA	Analysis	SM6200-B		5	10 mL	10 mL	277635	08/31/15 07:17	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:30	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:21	RDF	TAL NSH

Client Sample ID: MW-62
Date Collected: 08/21/15 14:58
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 20:20	PS	TAL NSH
Total/NA	Analysis	SM6200-B		5	10 mL	10 mL	277635	08/31/15 07:45	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:44	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:23	RDF	TAL NSH

Client Sample ID: MW-63
Date Collected: 08/21/15 16:20
Date Received: 08/25/15 10:00

Lab Sample ID: 490-85985-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	277037	08/28/15 13:21	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	276990	08/28/15 08:47	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	277512	08/28/15 16:49	TSC	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278244	09/01/15 16:12	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278710	09/02/15 16:26	RDF	TAL NSH

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

Method Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Method	Method Description	Protocol	Laboratory
SM6200-B	Volatile Organic Compounds	SM	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

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

Certification Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-85985-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-85985 Chain of Custody

Cooler Received/Opened On 8/25/2015 @ 1000

1. Tracking # 5323 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 2.2 *Degrees Celsius*

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

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

If yes, how many and where: 1 Front

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

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

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

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

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

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

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

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

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

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

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (intial) HKG

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

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

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

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

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

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

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

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

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

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

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

BIS = Broken in shipment

Chain of Custody Record

Loc: 490
85985

TestAmerica

9/8/2015

Client Information	Sampler: Geoffrey Murphey	Lab PM: Hayes, Ken	Ca	COC No: 490-41670-14128.1
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: ken.hayes@testamericainc.com		Page: Page 1 of 2
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: Lot 86	Project #: 49009217			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	SM6200_B - Method Targets	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	A		
1	MW-34DR	8/18/15	1015	G	Water			X	X		
2	MW-46		1115		Water						
3	MW-45R		1205		Water						
4	MW-41I		1358		Water						
5	MW-41S		1425		Water						
6	MW-42S		1513		Water						
7	MW-38	8/19/15	1016		Water						
8	MW-43D		1156		Water						
9	MW-43S		1236		Water						
10	MW-47		1450		Water						
11	MW-12D	8/20/15	855		Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/24/15 1700	PG		8/25/15 1000	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Loc: 490
85985

TestAmerica

9/8/2015

Client Information	Sampler: Geoffrey Murphey	Lab PM: Hayes, Ken	COC No: 490-41670-14128.2
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: ken.hayes@testamericainc.com	Page: Page 2 of 2
Company: Piedmont Geologic P.C.			Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:		
City: Raleigh	TAT Requested (days):		
State, Zip: NC, 27607			
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required		
Email: pjdressel@piedmontgeologic.com	WO #:		
Project Name: Lot 86	Project #: 49009217		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	SM6200_B - Method Targets	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	A		
12	MW-35D	8/20/15	1220	G	Water			X	X		
13	MW-11I	↓	1455	|	Water			|	|		
14	MW-16D	8/21/15	850	|	Water			|	|		
15	MW-35S	|	915	|	Water			|	|		
16	MW-41D	|	1100	|	Water			|	|		
17	MW-42I	|	1202	|	Water			|	|		
18	MW-36D	|	1458	|	Water			|	|		
19	MW-62	|	1458	|	Water			|	|		
20	MW-63	↓	1620	↓	Water			↓	↓		
					~~Water~~						
					~~Water~~						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Geoffrey Murphey	8/24/15 1700	DG	[illegible] 22	8/25/15 1000	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Piedmont Geologic P.C.

Job Number: 490-85985-1

Login Number: 85985
List Number: 1
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 490-86296-1
Client Project/Site: Lot 86

For:
Piedmont Geologic P.C.
6003 Chapel Hill Road
Suite 145
Raleigh, North Carolina 27607

Attn: Pete Dressel

Authorized for release by:
9/15/2015 2:36:12 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-86296-1	MW-36S	Water	08/25/15 09:00	08/29/15 09:00
490-86296-2	MW-16I	Water	08/25/15 10:55	08/29/15 09:00
490-86296-3	MW-13D	Water	08/25/15 12:30	08/29/15 09:00
490-86296-4	MW-16S	Water	08/25/15 13:25	08/29/15 09:00
490-86296-5	MW-17D	Water	08/25/15 14:55	08/29/15 09:00
490-86296-6	MW-17I	Water	08/25/15 15:37	08/29/15 09:00
490-86296-7	MW-27	Water	08/26/15 08:45	08/29/15 09:00
490-86296-8	MW-17S	Water	08/26/15 10:30	08/29/15 09:00
490-86296-9	MW-12I	Water	08/26/15 14:00	08/29/15 09:00
490-86296-10	MW-61	Water	08/26/15 14:00	08/29/15 09:00
490-86296-11	MW-3	Water	08/27/15 08:45	08/29/15 09:00
490-86296-12	MW-8	Water	08/27/15 09:20	08/29/15 09:00
490-86296-13	MW-37	Water	08/27/15 09:35	08/29/15 09:00
490-86296-14	RW-10	Water	08/27/15 10:45	08/29/15 09:00
490-86296-15	MW-12S	Water	08/27/15 12:10	08/29/15 09:00
490-86296-16	RW-1	Water	08/27/15 14:35	08/29/15 09:00
490-86296-17	MW-64	Water	08/27/15 14:50	08/29/15 09:00
490-86296-18	RW-6	Water	08/28/15 13:20	08/29/15 09:00
490-86296-19	Trip Blank	Water	08/28/15 14:00	08/29/15 09:00

Job ID: 490-86296-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-86296-1

Comments
No additional comments.

Receipt
The samples were received on 8/29/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º C.

GC/MS VOA
Method(s) SM6200-B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 490-279479.

Method(s) SM6200-B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 490-280422 and 490-280715.

Method(s) SM6200-B: The method blank for analytical batch 490-280715 contained Tetrachloroethene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-36S

Date Collected: 08/25/15 09:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-1

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 09:25	1
Chloromethane	ND		0.500		ug/L			09/05/15 09:25	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 09:25	1
Bromomethane	ND		0.500		ug/L			09/05/15 09:25	1
Chloroethane	ND		0.500		ug/L			09/05/15 09:25	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 09:25	1
1,1-Dichloroethene	**1.80**		0.500		ug/L			09/05/15 09:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 09:25	1
Methylene Chloride	**6.50**		5.00		ug/L			09/05/15 09:25	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 09:25	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 09:25	1
1,1-Dichloroethane	**0.534**		0.500		ug/L			09/05/15 09:25	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 09:25	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 09:25	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 09:25	1
Chloroform	**706**		5.00		ug/L			09/05/15 22:07	10
1,1,1-Trichloroethane	**0.864**		0.500		ug/L			09/05/15 09:25	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 09:25	1
Carbon tetrachloride	**35.0**		0.500		ug/L			09/05/15 09:25	1
Benzene	**0.533**		0.500		ug/L			09/05/15 09:25	1
1,2-Dichloroethane	**11.0**		0.500		ug/L			09/05/15 09:25	1
Trichloroethene	**44.3**		0.500		ug/L			09/05/15 09:25	1
1,2-Dichloropropane	**204**		5.00		ug/L			09/05/15 22:07	10
Dibromomethane	ND		0.500		ug/L			09/05/15 09:25	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 09:25	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 09:25	1
Toluene	ND		0.500		ug/L			09/05/15 09:25	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 09:25	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 09:25	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 09:25	1
Tetrachloroethene	**10.1**		0.500		ug/L			09/05/15 09:25	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 09:25	1
1,2-Dibromoethane (EDB)	**20.8**		0.500		ug/L			09/05/15 09:25	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 09:25	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 09:25	1
o-Xylene	ND		0.500		ug/L			09/05/15 09:25	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 09:25	1
Styrene	ND		0.500		ug/L			09/05/15 09:25	1
Bromoform	**0.706**		0.500		ug/L			09/05/15 09:25	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 09:25	1
Bromobenzene	ND		0.500		ug/L			09/05/15 09:25	1
1,1,2,2-Tetrachloroethane	**1.21**		0.500		ug/L			09/05/15 09:25	1
1,2,3-Trichloropropane	**2.95**		0.500		ug/L			09/05/15 09:25	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 09:25	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 09:25	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 09:25	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-36S

Date Collected: 08/25/15 09:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-1

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 09:25	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 09:25	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 09:25	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1
Naphthalene	ND		5.00		ug/L			09/05/15 09:25	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/05/15 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*09/05/15 22:07*	*10*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/05/15 09:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/05/15 22:07*	*10*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/05/15 09:25*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*09/05/15 22:07*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/05/15 09:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 22:07*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 10:32	1
Barium	**110**		10.0		ug/L		09/01/15 13:48	09/02/15 10:32	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 10:32	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 10:32	1
Manganese	**3220**		15.0		ug/L		09/01/15 13:48	09/02/15 10:32	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 10:32	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 10:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.415**		0.200		ug/L		09/01/15 16:19	09/02/15 14:02	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-16I

Date Collected: 08/25/15 10:55
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-2

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 09:53	1
Chloromethane	ND		0.500		ug/L			09/05/15 09:53	1
Vinyl chloride	**1.68**		0.500		ug/L			09/05/15 09:53	1
Bromomethane	ND		0.500		ug/L			09/05/15 09:53	1
Chloroethane	ND		0.500		ug/L			09/05/15 09:53	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 09:53	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 09:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 09:53	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 09:53	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 09:53	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 09:53	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 09:53	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 09:53	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 09:53	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 09:53	1
Chloroform	**18.6**		0.500		ug/L			09/05/15 09:53	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 09:53	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 09:53	1
Carbon tetrachloride	ND		0.500		ug/L			09/05/15 09:53	1
Benzene	**1.11**		0.500		ug/L			09/05/15 09:53	1
1,2-Dichloroethane	**1.16**		0.500		ug/L			09/05/15 09:53	1
Trichloroethene	**8.82**		0.500		ug/L			09/05/15 09:53	1
1,2-Dichloropropane	**45.2**		0.500		ug/L			09/05/15 09:53	1
Dibromomethane	ND		0.500		ug/L			09/05/15 09:53	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 09:53	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 09:53	1
Toluene	ND		0.500		ug/L			09/05/15 09:53	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 09:53	1
1,1,2-Trichloroethane	**0.917**		0.500		ug/L			09/05/15 09:53	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 09:53	1
Tetrachloroethene	**12.6**		0.500		ug/L			09/05/15 09:53	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 09:53	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 09:53	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 09:53	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 09:53	1
o-Xylene	ND		0.500		ug/L			09/05/15 09:53	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 09:53	1
Styrene	ND		0.500		ug/L			09/05/15 09:53	1
Bromoform	ND		0.500		ug/L			09/05/15 09:53	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 09:53	1
Bromobenzene	ND		0.500		ug/L			09/05/15 09:53	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 09:53	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 09:53	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 09:53	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 09:53	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 09:53	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-16I

Date Collected: 08/25/15 10:55
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-2

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 09:53	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 09:53	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 09:53	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1
Naphthalene	ND		5.00		ug/L			09/05/15 09:53	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*09/05/15 09:53*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/05/15 09:53*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/05/15 09:53*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/05/15 09:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:08	1
Barium	**23.9**		10.0		ug/L		09/01/15 13:48	09/02/15 11:08	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:08	1
Chromium	**5.60**		5.00		ug/L		09/01/15 13:48	09/02/15 11:08	1
Manganese	**190**		15.0		ug/L		09/01/15 13:48	09/02/15 11:08	1
Lead	**5.50**		5.00		ug/L		09/01/15 13:48	09/02/15 11:08	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:05	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-13D

Date Collected: 08/25/15 12:30
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-3

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 10:21	1
Chloromethane	ND		0.500		ug/L			09/05/15 10:21	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 10:21	1
Bromomethane	ND		0.500		ug/L			09/05/15 10:21	1
Chloroethane	ND		0.500		ug/L			09/05/15 10:21	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 10:21	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 10:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 10:21	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 10:21	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 10:21	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 10:21	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 10:21	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 10:21	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 10:21	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 10:21	1
Chloroform	**4.01**		0.500		ug/L			09/05/15 10:21	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 10:21	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 10:21	1
Carbon tetrachloride	ND		0.500		ug/L			09/05/15 10:21	1
Benzene	ND		0.500		ug/L			09/05/15 10:21	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 10:21	1
Trichloroethene	ND		0.500		ug/L			09/05/15 10:21	1
1,2-Dichloropropane	**2.10**		0.500		ug/L			09/05/15 10:21	1
Dibromomethane	ND		0.500		ug/L			09/05/15 10:21	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 10:21	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 10:21	1
Toluene	ND		0.500		ug/L			09/05/15 10:21	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 10:21	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 10:21	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 10:21	1
Tetrachloroethene	ND		0.500		ug/L			09/05/15 10:21	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 10:21	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 10:21	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 10:21	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 10:21	1
o-Xylene	ND		0.500		ug/L			09/05/15 10:21	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 10:21	1
Styrene	ND		0.500		ug/L			09/05/15 10:21	1
Bromoform	ND		0.500		ug/L			09/05/15 10:21	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 10:21	1
Bromobenzene	ND		0.500		ug/L			09/05/15 10:21	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 10:21	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 10:21	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 10:21	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 10:21	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 10:21	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-13D

Date Collected: 08/25/15 12:30
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-3

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 10:21	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 10:21	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 10:21	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1
Naphthalene	ND		5.00		ug/L			09/05/15 10:21	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*09/05/15 10:21*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/05/15 10:21*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/05/15 10:21*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/05/15 10:21*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:12	1
Barium	**13.0**		10.0		ug/L		09/01/15 13:48	09/02/15 11:12	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:12	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:12	1
Manganese	**56.2**		15.0		ug/L		09/01/15 13:48	09/02/15 11:12	1
Lead	**6.80**		5.00		ug/L		09/01/15 13:48	09/02/15 11:12	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:12	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-16S

Date Collected: 08/25/15 13:25
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-4

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 10:50	1
Chloromethane	ND		0.500		ug/L			09/05/15 10:50	1
Vinyl chloride	**2.91**		0.500		ug/L			09/05/15 10:50	1
Bromomethane	ND		0.500		ug/L			09/05/15 10:50	1
Chloroethane	ND		0.500		ug/L			09/05/15 10:50	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 10:50	1
1,1-Dichloroethene	**1.88**		0.500		ug/L			09/05/15 10:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 10:50	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 10:50	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 10:50	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 10:50	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 10:50	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 10:50	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 10:50	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 10:50	1
Chloroform	**111**		5.00		ug/L			09/05/15 22:35	10
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 10:50	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 10:50	1
Carbon tetrachloride	**6.37**		0.500		ug/L			09/05/15 10:50	1
Benzene	**2.83**		0.500		ug/L			09/05/15 10:50	1
1,2-Dichloroethane	**2.98**		0.500		ug/L			09/05/15 10:50	1
Trichloroethene	**126**		0.500		ug/L			09/05/15 10:50	1
1,2-Dichloropropane	**198**		0.500		ug/L			09/05/15 10:50	1
Dibromomethane	ND		0.500		ug/L			09/05/15 10:50	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 10:50	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 10:50	1
Toluene	**0.921**		0.500		ug/L			09/05/15 10:50	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 10:50	1
1,1,2-Trichloroethane	**49.1**		0.500		ug/L			09/05/15 10:50	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 10:50	1
Tetrachloroethene	**153**		0.500		ug/L			09/05/15 10:50	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 10:50	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 10:50	1
Chlorobenzene	**1.32**		0.500		ug/L			09/05/15 10:50	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 10:50	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
m,p-Xylene	**0.592**		0.500		ug/L			09/05/15 10:50	1
o-Xylene	**1.65**		0.500		ug/L			09/05/15 10:50	1
Xylenes, Total	**2.24**		1.00		ug/L			09/05/15 10:50	1
Styrene	ND		0.500		ug/L			09/05/15 10:50	1
Bromoform	ND		0.500		ug/L			09/05/15 10:50	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 10:50	1
Bromobenzene	ND		0.500		ug/L			09/05/15 10:50	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 10:50	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 10:50	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 10:50	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 10:50	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 10:50	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-16S

Date Collected: 08/25/15 13:25
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-4

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 10:50	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 10:50	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 10:50	1
1,2-Dichlorobenzene	**0.628**		0.500		ug/L			09/05/15 10:50	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 10:50	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 10:50	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 10:50	1
Naphthalene	ND		5.00		ug/L			09/05/15 10:50	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/05/15 10:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*09/05/15 22:35*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/05/15 10:50*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/05/15 22:35*	*10*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/05/15 10:50*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*09/05/15 22:35*	*10*
Toluene-d8 (Surr)	*94*		*70 - 130*		*09/05/15 10:50*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/05/15 22:35*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:16	1
Barium	**133**		10.0		ug/L		09/01/15 13:48	09/02/15 11:16	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:16	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:16	1
Manganese	**9630**		15.0		ug/L		09/01/15 13:48	09/02/15 11:16	1
Lead	**13.7**		5.00		ug/L		09/01/15 13:48	09/02/15 11:16	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.494**		0.200		ug/L		09/01/15 16:19	09/02/15 14:14	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17D

Date Collected: 08/25/15 14:55
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-5

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.20**		0.500		ug/L			09/05/15 11:17	1
Chloromethane	ND		0.500		ug/L			09/05/15 11:17	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 11:17	1
Bromomethane	ND		0.500		ug/L			09/05/15 11:17	1
Chloroethane	ND		0.500		ug/L			09/05/15 11:17	1
Trichlorofluoromethane	**0.905**		0.500		ug/L			09/05/15 11:17	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**5.31**		0.500		ug/L			09/05/15 11:17	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 11:17	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 11:17	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 11:17	1
1,1-Dichloroethane	**0.566**		0.500		ug/L			09/05/15 11:17	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 11:17	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 11:17	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 11:17	1
Chloroform	**3040**		25.0		ug/L			09/05/15 23:31	50
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 11:17	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 11:17	1
Carbon tetrachloride	**309**		2.50		ug/L			09/05/15 23:04	5
Benzene	ND		0.500		ug/L			09/05/15 11:17	1
1,2-Dichloroethane	**1.39**		0.500		ug/L			09/05/15 11:17	1
Trichloroethene	**162**		0.500		ug/L			09/05/15 11:17	1
1,2-Dichloropropane	**197**		2.50		ug/L			09/05/15 23:04	5
Dibromomethane	ND		0.500		ug/L			09/05/15 11:17	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 11:17	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 11:17	1
Toluene	ND		0.500		ug/L			09/05/15 11:17	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 11:17	1
1,1,2-Trichloroethane	**40.4**		0.500		ug/L			09/05/15 11:17	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 11:17	1
Tetrachloroethene	**90.2**		0.500		ug/L			09/05/15 11:17	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 11:17	1
1,2-Dibromoethane (EDB)	**5.79**		0.500		ug/L			09/05/15 11:17	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 11:17	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 11:17	1
o-Xylene	ND		0.500		ug/L			09/05/15 11:17	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 11:17	1
Styrene	ND		0.500		ug/L			09/05/15 11:17	1
Bromoform	ND		0.500		ug/L			09/05/15 11:17	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 11:17	1
Bromobenzene	ND		0.500		ug/L			09/05/15 11:17	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 11:17	1
1,2,3-Trichloropropane	**3.53**		0.500		ug/L			09/05/15 11:17	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 11:17	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 11:17	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17D

Date Collected: 08/25/15 14:55
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-5

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 11:17	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 11:17	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 11:17	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1
Naphthalene	ND		5.00		ug/L			09/05/15 11:17	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/05/15 11:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*09/05/15 23:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*09/05/15 23:31*	*50*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*09/05/15 11:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/05/15 23:04*	*5*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*09/05/15 23:31*	*50*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/05/15 11:17*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/05/15 23:04*	*5*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/05/15 23:31*	*50*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/05/15 11:17*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 23:04*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 23:31*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:21	1
Barium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:21	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:21	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:21	1
Manganese	ND		15.0		ug/L		09/01/15 13:48	09/02/15 11:21	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:21	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:17	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17I

Date Collected: 08/25/15 15:37
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-6

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.49**		0.500		ug/L			09/05/15 11:45	1
Chloromethane	ND		0.500		ug/L			09/05/15 11:45	1
Vinyl chloride	**1.24**		0.500		ug/L			09/05/15 11:45	1
Bromomethane	ND		0.500		ug/L			09/05/15 11:45	1
Chloroethane	ND		0.500		ug/L			09/05/15 11:45	1
Trichlorofluoromethane	**1.15**		0.500		ug/L			09/05/15 11:45	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 11:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**3.10**		0.500		ug/L			09/05/15 11:45	1
Methylene Chloride	**248**		50.0		ug/L			09/05/15 23:59	10
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 11:45	1
Methyl tert-butyl ether	**0.783**		0.500		ug/L			09/05/15 11:45	1
1,1-Dichloroethane	**7.47**		0.500		ug/L			09/05/15 11:45	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 11:45	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 11:45	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 11:45	1
Chloroform	**6350**		50.0		ug/L			09/06/15 00:27	100
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 11:45	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 11:45	1
Carbon tetrachloride	**180**		0.500		ug/L			09/05/15 11:45	1
Benzene	**5710**		50.0		ug/L			09/06/15 00:27	100
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 11:45	1
Trichloroethene	**243**		5.00		ug/L			09/05/15 23:59	10
1,2-Dichloropropane	**880**		5.00		ug/L			09/05/15 23:59	10
Dibromomethane	ND		0.500		ug/L			09/05/15 11:45	1
Bromodichloromethane	**69.6**		0.500		ug/L			09/05/15 11:45	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 11:45	1
Toluene	**1.39**		0.500		ug/L			09/05/15 11:45	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 11:45	1
1,1,2-Trichloroethane	**30.6**		0.500		ug/L			09/05/15 11:45	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 11:45	1
Tetrachloroethene	**12.7**		0.500		ug/L			09/05/15 11:45	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 11:45	1
1,2-Dibromoethane (EDB)	**32.5**		0.500		ug/L			09/05/15 11:45	1
Chlorobenzene	**5.69**		0.500		ug/L			09/05/15 11:45	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 11:45	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
m,p-Xylene	**2.60**		0.500		ug/L			09/05/15 11:45	1
o-Xylene	**7.24**		0.500		ug/L			09/05/15 11:45	1
Xylenes, Total	**9.84**		1.00		ug/L			09/05/15 11:45	1
Styrene	ND		0.500		ug/L			09/05/15 11:45	1
Bromoform	ND		0.500		ug/L			09/05/15 11:45	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 11:45	1
Bromobenzene	ND		0.500		ug/L			09/05/15 11:45	1
1,1,2,2-Tetrachloroethane	**4.65**		0.500		ug/L			09/05/15 11:45	1
1,2,3-Trichloropropane	**17.3**		0.500		ug/L			09/05/15 11:45	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 11:45	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 11:45	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17I

Date Collected: 08/25/15 15:37
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-6

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
1,2,4-Trimethylbenzene	**1.54**		0.500		ug/L			09/05/15 11:45	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 11:45	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 11:45	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 11:45	1
1,2-Dichlorobenzene	**0.715**		0.500		ug/L			09/05/15 11:45	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 11:45	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 11:45	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 11:45	1
Naphthalene	ND		5.00		ug/L			09/05/15 11:45	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*09/05/15 11:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/05/15 23:59*	*10*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*09/06/15 00:27*	*100*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/05/15 11:45*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/05/15 23:59*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/06/15 00:27*	*100*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*09/05/15 11:45*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*09/05/15 23:59*	*10*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/06/15 00:27*	*100*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/05/15 11:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 23:59*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/06/15 00:27*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:25	1
Barium	**16.4**		10.0		ug/L		09/01/15 13:48	09/02/15 11:25	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:25	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:25	1
Manganese	**149**		15.0		ug/L		09/01/15 13:48	09/02/15 11:25	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:25	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:19	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-27

Date Collected: 08/26/15 08:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-7

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 18:52	1
Chloromethane	ND		0.500		ug/L			09/05/15 18:52	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 18:52	1
Bromomethane	ND		0.500		ug/L			09/05/15 18:52	1
Chloroethane	ND		0.500		ug/L			09/05/15 18:52	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 18:52	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 18:52	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 18:52	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 18:52	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 18:52	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 18:52	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 18:52	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 18:52	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 18:52	1
Chloroform	**33.8**		0.500		ug/L			09/05/15 18:52	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 18:52	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 18:52	1
Carbon tetrachloride	**16.2**		0.500		ug/L			09/05/15 18:52	1
Benzene	ND		0.500		ug/L			09/05/15 18:52	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 18:52	1
Trichloroethene	**9.95**		0.500		ug/L			09/05/15 18:52	1
1,2-Dichloropropane	**19.4**		0.500		ug/L			09/05/15 18:52	1
Dibromomethane	ND		0.500		ug/L			09/05/15 18:52	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 18:52	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 18:52	1
Toluene	ND		0.500		ug/L			09/05/15 18:52	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 18:52	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 18:52	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 18:52	1
Tetrachloroethene	**2.09**		0.500		ug/L			09/05/15 18:52	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 18:52	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 18:52	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 18:52	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 18:52	1
o-Xylene	ND		0.500		ug/L			09/05/15 18:52	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 18:52	1
Styrene	ND		0.500		ug/L			09/05/15 18:52	1
Bromoform	ND		0.500		ug/L			09/05/15 18:52	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 18:52	1
Bromobenzene	ND		0.500		ug/L			09/05/15 18:52	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 18:52	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 18:52	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 18:52	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 18:52	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 18:52	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-27

Date Collected: 08/26/15 08:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-7

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 18:52	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 18:52	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 18:52	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1
Naphthalene	ND		5.00		ug/L			09/05/15 18:52	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*09/05/15 18:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/05/15 18:52*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/05/15 18:52*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/05/15 18:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:30	1
Barium	**17.4**		10.0		ug/L		09/01/15 13:48	09/02/15 11:30	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:30	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:30	1
Manganese	**54.0**		15.0		ug/L		09/01/15 13:48	09/02/15 11:30	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:30	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:21	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17S

Date Collected: 08/26/15 10:30
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-8

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 19:20	1
Chloromethane	ND		0.500		ug/L			09/05/15 19:20	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 19:20	1
Bromomethane	ND		0.500		ug/L			09/05/15 19:20	1
Chloroethane	ND		0.500		ug/L			09/05/15 19:20	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 19:20	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 19:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 19:20	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 19:20	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 19:20	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 19:20	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 19:20	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 19:20	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 19:20	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 19:20	1
Chloroform	**13.7**		0.500		ug/L			09/05/15 19:20	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 19:20	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 19:20	1
Carbon tetrachloride	**0.548**		0.500		ug/L			09/05/15 19:20	1
Benzene	ND		0.500		ug/L			09/05/15 19:20	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 19:20	1
Trichloroethene	ND		0.500		ug/L			09/05/15 19:20	1
1,2-Dichloropropane	**0.960**		0.500		ug/L			09/05/15 19:20	1
Dibromomethane	ND		0.500		ug/L			09/05/15 19:20	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 19:20	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 19:20	1
Toluene	ND		0.500		ug/L			09/05/15 19:20	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 19:20	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 19:20	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 19:20	1
Tetrachloroethene	ND		0.500		ug/L			09/05/15 19:20	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 19:20	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 19:20	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 19:20	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 19:20	1
o-Xylene	ND		0.500		ug/L			09/05/15 19:20	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 19:20	1
Styrene	ND		0.500		ug/L			09/05/15 19:20	1
Bromoform	ND		0.500		ug/L			09/05/15 19:20	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 19:20	1
Bromobenzene	ND		0.500		ug/L			09/05/15 19:20	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 19:20	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 19:20	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 19:20	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 19:20	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 19:20	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17S

Date Collected: 08/26/15 10:30
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-8

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 19:20	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 19:20	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 19:20	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1
Naphthalene	ND		5.00		ug/L			09/05/15 19:20	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*09/05/15 19:20*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/05/15 19:20*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/05/15 19:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 19:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:34	1
Barium	**44.9**		10.0		ug/L		09/01/15 13:48	09/02/15 11:34	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:34	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:34	1
Manganese	**197**		15.0		ug/L		09/01/15 13:48	09/02/15 11:34	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:34	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 14:24	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12I

Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-9

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.41**		0.500		ug/L			09/05/15 13:09	1
Chloromethane	ND		0.500		ug/L			09/05/15 13:09	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 13:09	1
Bromomethane	ND		0.500		ug/L			09/05/15 13:09	1
Chloroethane	ND		0.500		ug/L			09/05/15 13:09	1
Trichlorofluoromethane	**1.57**		0.500		ug/L			09/05/15 13:09	1
1,1-Dichloroethene	**0.544**		0.500		ug/L			09/05/15 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 13:09	1
Methylene Chloride	**112**		5.00		ug/L			09/05/15 13:09	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 13:09	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 13:09	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 13:09	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 13:09	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 13:09	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 13:09	1
Chloroform	**7060**		50.0		ug/L			09/06/15 01:23	100
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 13:09	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 13:09	1
Carbon tetrachloride	**86.8**		0.500		ug/L			09/05/15 13:09	1
Benzene	**74.3**		0.500		ug/L			09/05/15 13:09	1
1,2-Dichloroethane	**4.16**		0.500		ug/L			09/05/15 13:09	1
Trichloroethene	**137**		0.500		ug/L			09/05/15 13:09	1
1,2-Dichloropropane	**208**		5.00		ug/L			09/06/15 00:55	10
Dibromomethane	ND		0.500		ug/L			09/05/15 13:09	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 13:09	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 13:09	1
Toluene	ND		0.500		ug/L			09/05/15 13:09	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 13:09	1
1,1,2-Trichloroethane	**89.1**		0.500		ug/L			09/05/15 13:09	1
1,3-Dichloropropane	**0.704**		0.500		ug/L			09/05/15 13:09	1
Tetrachloroethene	**159**		0.500		ug/L			09/05/15 13:09	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 13:09	1
1,2-Dibromoethane (EDB)	**18.1**		0.500		ug/L			09/05/15 13:09	1
Chlorobenzene	**2.96**		0.500		ug/L			09/05/15 13:09	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 13:09	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 13:09	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 13:09	1
o-Xylene	**3.88**		0.500		ug/L			09/05/15 13:09	1
Xylenes, Total	**3.88**		1.00		ug/L			09/05/15 13:09	1
Styrene	ND		0.500		ug/L			09/05/15 13:09	1
Bromoform	ND		0.500		ug/L			09/05/15 13:09	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 13:09	1
Bromobenzene	ND		0.500		ug/L			09/05/15 13:09	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 13:09	1
1,2,3-Trichloropropane	**0.700**		0.500		ug/L			09/05/15 13:09	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 13:09	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 13:09	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 13:09	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 13:09	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12I

Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-9

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 13:09	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 13:09	1
1,2,4-Trimethylbenzene	**0.933**		0.500		ug/L			09/05/15 13:09	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 13:09	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 13:09	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 13:09	1
1,2-Dichlorobenzene	**0.606**		0.500		ug/L			09/05/15 13:09	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 13:09	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 13:09	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 13:09	1
Naphthalene	**13.6**		5.00		ug/L			09/05/15 13:09	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/05/15 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/06/15 00:55*	*10*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*09/06/15 01:23*	*100*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/05/15 13:09*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/06/15 00:55*	*10*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/06/15 01:23*	*100*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*09/05/15 13:09*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/06/15 00:55*	*10*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/06/15 01:23*	*100*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/05/15 13:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/06/15 00:55*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/06/15 01:23*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:38	1
Barium	**33.4**		10.0		ug/L		09/01/15 13:48	09/02/15 11:38	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:38	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:38	1
Manganese	**98.2**		15.0		ug/L		09/01/15 13:48	09/02/15 11:38	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:38	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:01	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-61

Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-10

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.47**		0.500		ug/L			09/05/15 13:37	1
Chloromethane	ND		0.500		ug/L			09/05/15 13:37	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 13:37	1
Bromomethane	ND		0.500		ug/L			09/05/15 13:37	1
Chloroethane	ND		0.500		ug/L			09/05/15 13:37	1
Trichlorofluoromethane	**1.55**		0.500		ug/L			09/05/15 13:37	1
1,1-Dichloroethene	**0.543**		0.500		ug/L			09/05/15 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 13:37	1
Methylene Chloride	**113**		5.00		ug/L			09/05/15 13:37	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 13:37	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 13:37	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 13:37	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 13:37	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 13:37	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 13:37	1
Chloroform	**6980**		50.0		ug/L			09/06/15 02:19	100
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 13:37	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 13:37	1
Carbon tetrachloride	**88.2**		0.500		ug/L			09/05/15 13:37	1
Benzene	**75.2**		0.500		ug/L			09/05/15 13:37	1
1,2-Dichloroethane	**4.19**		0.500		ug/L			09/05/15 13:37	1
Trichloroethene	**138**		0.500		ug/L			09/05/15 13:37	1
1,2-Dichloropropane	**205**		5.00		ug/L			09/06/15 01:51	10
Dibromomethane	ND		0.500		ug/L			09/05/15 13:37	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 13:37	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 13:37	1
Toluene	ND		0.500		ug/L			09/05/15 13:37	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 13:37	1
1,1,2-Trichloroethane	**90.6**		0.500		ug/L			09/05/15 13:37	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 13:37	1
Tetrachloroethene	**163**		0.500		ug/L			09/05/15 13:37	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 13:37	1
1,2-Dibromoethane (EDB)	**18.0**		0.500		ug/L			09/05/15 13:37	1
Chlorobenzene	**3.01**		0.500		ug/L			09/05/15 13:37	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 13:37	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 13:37	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 13:37	1
o-Xylene	**3.91**		0.500		ug/L			09/05/15 13:37	1
Xylenes, Total	**3.91**		1.00		ug/L			09/05/15 13:37	1
Styrene	ND		0.500		ug/L			09/05/15 13:37	1
Bromoform	ND		0.500		ug/L			09/05/15 13:37	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 13:37	1
Bromobenzene	ND		0.500		ug/L			09/05/15 13:37	1
1,1,2,2-Tetrachloroethane	**0.502**		0.500		ug/L			09/05/15 13:37	1
1,2,3-Trichloropropane	**0.615**		0.500		ug/L			09/05/15 13:37	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 13:37	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 13:37	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 13:37	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 13:37	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-61

Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-10

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 13:37	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 13:37	1
1,2,4-Trimethylbenzene	**0.961**		0.500		ug/L			09/05/15 13:37	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 13:37	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 13:37	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 13:37	1
1,2-Dichlorobenzene	**0.593**		0.500		ug/L			09/05/15 13:37	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 13:37	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 13:37	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 13:37	1
Naphthalene	**14.8**		5.00		ug/L			09/05/15 13:37	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/05/15 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/06/15 01:51*	*10*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*09/06/15 02:19*	*100*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/05/15 13:37*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/06/15 01:51*	*10*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/06/15 02:19*	*100*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*09/05/15 13:37*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/06/15 01:51*	*10*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/06/15 02:19*	*100*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/05/15 13:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/06/15 01:51*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/06/15 02:19*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:47	1
Barium	**40.5**		10.0		ug/L		09/01/15 13:48	09/02/15 11:47	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:47	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:47	1
Manganese	**103**		15.0		ug/L		09/01/15 13:48	09/02/15 11:47	1
Lead	**5.80**		5.00		ug/L		09/01/15 13:48	09/02/15 11:47	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:09	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-3

Date Collected: 08/27/15 08:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-11

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 15:45	1
Chloromethane	ND		0.500		ug/L			09/10/15 15:45	1
Vinyl chloride	**10.2**		0.500		ug/L			09/10/15 15:45	1
Bromomethane	ND		0.500		ug/L			09/10/15 15:45	1
Chloroethane	ND		0.500		ug/L			09/10/15 15:45	1
Trichlorofluoromethane	**1.42**		0.500		ug/L			09/10/15 15:45	1
1,1-Dichloroethene	**20.5**		0.500		ug/L			09/10/15 15:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.60**		0.500		ug/L			09/10/15 15:45	1
Methylene Chloride	**310**		100		ug/L			09/10/15 18:32	20
trans-1,2-Dichloroethene	**1.60**		0.500		ug/L			09/10/15 15:45	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 15:45	1
1,1-Dichloroethane	**9.25**		0.500		ug/L			09/10/15 15:45	1
cis-1,2-Dichloroethene	**8.70**		0.500		ug/L			09/10/15 15:45	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 15:45	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 15:45	1
Chloroform	**6870**		100		ug/L			09/10/15 19:00	200
1,1,1-Trichloroethane	**21.6**		0.500		ug/L			09/10/15 15:45	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 15:45	1
Carbon tetrachloride	**275**		10.0		ug/L			09/10/15 18:32	20
Benzene	**14.1**		0.500		ug/L			09/10/15 15:45	1
1,2-Dichloroethane	**124**		0.500		ug/L			09/10/15 15:45	1
Trichloroethene	**854**		10.0		ug/L			09/10/15 18:32	20
1,2-Dichloropropane	**5700**		100		ug/L			09/10/15 19:00	200
Dibromomethane	**1.15**		0.500		ug/L			09/10/15 15:45	1
Bromodichloromethane	**43.5**		0.500		ug/L			09/10/15 15:45	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 15:45	1
Toluene	**2.20**		0.500		ug/L			09/10/15 15:45	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 15:45	1
1,1,2-Trichloroethane	**12.2**		0.500		ug/L			09/10/15 15:45	1
1,3-Dichloropropane	**30.0**		0.500		ug/L			09/10/15 15:45	1
Tetrachloroethene	**84.6**		0.500		ug/L			09/10/15 15:45	1
Dibromochloromethane	**4.70**		0.500		ug/L			09/10/15 15:45	1
1,2-Dibromoethane (EDB)	**4910**		100		ug/L			09/10/15 19:00	200
Chlorobenzene	**11.9**		0.500		ug/L			09/10/15 15:45	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 15:45	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 15:45	1
o-Xylene	ND		0.500		ug/L			09/10/15 15:45	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 15:45	1
Styrene	ND		0.500		ug/L			09/10/15 15:45	1
Bromoform	**106**		0.500		ug/L			09/10/15 15:45	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 15:45	1
Bromobenzene	ND		0.500		ug/L			09/10/15 15:45	1
1,1,2,2-Tetrachloroethane	**170**		0.500		ug/L			09/10/15 15:45	1
1,2,3-Trichloropropane	**202**		10.0		ug/L			09/10/15 18:32	20
N-Propylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 15:45	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 15:45	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-3

Date Collected: 08/27/15 08:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-11

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 15:45	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 15:45	1
1,4-Dichlorobenzene	**0.552**		0.500		ug/L			09/10/15 15:45	1
1,2-Dichlorobenzene	**0.713**		0.500		ug/L			09/10/15 15:45	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 15:45	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 15:45	1
1,2,4-Trichlorobenzene	**0.523**		0.500		ug/L			09/10/15 15:45	1
Naphthalene	ND		5.00		ug/L			09/10/15 15:45	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*09/10/15 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/10/15 18:32*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/10/15 19:00*	*200*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*09/10/15 15:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/10/15 18:32*	*20*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/10/15 19:00*	*200*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*09/10/15 15:45*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*09/10/15 18:32*	*20*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/10/15 19:00*	*200*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/10/15 15:45*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*09/10/15 18:32*	*20*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/10/15 19:00*	*200*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:43	1
Barium	**190**		10.0		ug/L		09/01/15 13:48	09/02/15 11:43	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 11:43	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:43	1
Manganese	**2360**		15.0		ug/L		09/01/15 13:48	09/02/15 11:43	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 11:43	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 11:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:11	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-8

Date Collected: 08/27/15 09:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-12

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 16:13	1
Chloromethane	ND		0.500		ug/L			09/10/15 16:13	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 16:13	1
Bromomethane	ND		0.500		ug/L			09/10/15 16:13	1
Chloroethane	ND		0.500		ug/L			09/10/15 16:13	1
Trichlorofluoromethane	**2.19**		0.500		ug/L			09/10/15 16:13	1
1,1-Dichloroethene	**1.32**		0.500		ug/L			09/10/15 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 16:13	1
Methylene Chloride	**23.7**		5.00		ug/L			09/10/15 16:13	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 16:13	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 16:13	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 16:13	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 16:13	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 16:13	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 16:13	1
Chloroform	**10800**		50.0		ug/L			09/10/15 19:56	100
1,1,1-Trichloroethane	**0.704**		0.500		ug/L			09/10/15 16:13	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 16:13	1
Carbon tetrachloride	**236**		5.00		ug/L			09/10/15 19:28	10
Benzene	ND		0.500		ug/L			09/10/15 16:13	1
1,2-Dichloroethane	**11.0**		0.500		ug/L			09/10/15 16:13	1
Trichloroethene	**90.0**		0.500		ug/L			09/10/15 16:13	1
1,2-Dichloropropane	**823**		5.00		ug/L			09/10/15 19:28	10
Dibromomethane	ND		0.500		ug/L			09/10/15 16:13	1
Bromodichloromethane	**1.96**		0.500		ug/L			09/10/15 16:13	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 16:13	1
Toluene	ND		0.500		ug/L			09/10/15 16:13	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 16:13	1
1,1,2-Trichloroethane	**0.503**		0.500		ug/L			09/10/15 16:13	1
1,3-Dichloropropane	**1.46**		0.500		ug/L			09/10/15 16:13	1
Tetrachloroethene	**146**		0.500		ug/L			09/10/15 16:13	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 16:13	1
1,2-Dibromoethane (EDB)	**517**		5.00		ug/L			09/10/15 19:28	10
Chlorobenzene	ND		0.500		ug/L			09/10/15 16:13	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 16:13	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 16:13	1
o-Xylene	ND		0.500		ug/L			09/10/15 16:13	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 16:13	1
Styrene	ND		0.500		ug/L			09/10/15 16:13	1
Bromoform	ND		0.500		ug/L			09/10/15 16:13	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 16:13	1
Bromobenzene	ND		0.500		ug/L			09/10/15 16:13	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 16:13	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/10/15 16:13	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 16:13	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 16:13	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 16:13	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-8

Date Collected: 08/27/15 09:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-12

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 16:13	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 16:13	1
1,4-Dichlorobenzene	**2.16**		0.500		ug/L			09/10/15 16:13	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 16:13	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 16:13	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 16:13	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 16:13	1
Naphthalene	ND		5.00		ug/L			09/10/15 16:13	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/10/15 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/10/15 19:28*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/10/15 19:56*	*100*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*09/10/15 16:13*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/10/15 19:28*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/10/15 19:56*	*100*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*09/10/15 16:13*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/10/15 19:28*	*10*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/10/15 19:56*	*100*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/10/15 16:13*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/10/15 19:28*	*10*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/10/15 19:56*	*100*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:01	1
Barium	**20.9**		10.0		ug/L		09/01/15 13:48	09/02/15 12:01	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:01	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:01	1
Manganese	**35.9**		15.0		ug/L		09/01/15 13:48	09/02/15 12:01	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:01	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:14	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-37

Date Collected: 08/27/15 09:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-13

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.33		0.500		ug/L			09/10/15 16:41	1
Chloromethane	4.24		0.500		ug/L			09/10/15 16:41	1
Vinyl chloride	4.52		0.500		ug/L			09/10/15 16:41	1
Bromomethane	ND		0.500		ug/L			09/10/15 16:41	1
Chloroethane	0.535		0.500		ug/L			09/10/15 16:41	1
Trichlorofluoromethane	3.04		0.500		ug/L			09/10/15 16:41	1
1,1-Dichloroethene	18.5		0.500		ug/L			09/10/15 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.704		0.500		ug/L			09/10/15 16:41	1
Methylene Chloride	11500		1000		ug/L			09/10/15 21:48	200
trans-1,2-Dichloroethene	1.72		0.500		ug/L			09/10/15 16:41	1
Methyl tert-butyl ether	2.97		0.500		ug/L			09/10/15 16:41	1
1,1-Dichloroethane	6.31		0.500		ug/L			09/10/15 16:41	1
cis-1,2-Dichloroethene	19.8		0.500		ug/L			09/10/15 16:41	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 16:41	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 16:41	1
Chloroform	100000		500		ug/L			09/10/15 22:16	1000
1,1,1-Trichloroethane	5.44		0.500		ug/L			09/10/15 16:41	1
1,1-Dichloropropene	0.537		0.500		ug/L			09/10/15 16:41	1
Carbon tetrachloride	3.19		0.500		ug/L			09/10/15 16:41	1
Benzene	8200		100		ug/L			09/10/15 21:48	200
1,2-Dichloroethane	976		10.0		ug/L			09/10/15 21:20	20
Trichloroethene	942		10.0		ug/L			09/10/15 21:20	20
1,2-Dichloropropane	3320		10.0		ug/L			09/10/15 21:20	20
Dibromomethane	ND		0.500		ug/L			09/10/15 16:41	1
Bromodichloromethane	242		10.0		ug/L			09/10/15 21:20	20
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 16:41	1
Toluene	729		10.0		ug/L			09/10/15 21:20	20
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 16:41	1
1,1,2-Trichloroethane	9.13		0.500		ug/L			09/10/15 16:41	1
1,3-Dichloropropane	19.5		0.500		ug/L			09/10/15 16:41	1
Tetrachloroethene	353		10.0		ug/L			09/10/15 21:20	20
Dibromochloromethane	0.652		0.500		ug/L			09/10/15 16:41	1
1,2-Dibromoethane (EDB)	13.9		0.500		ug/L			09/10/15 16:41	1
Chlorobenzene	107		0.500		ug/L			09/10/15 16:41	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 16:41	1
Ethylbenzene	114		0.500		ug/L			09/10/15 16:41	1
m,p-Xylene	297		10.0		ug/L			09/10/15 21:20	20
o-Xylene	262		10.0		ug/L			09/10/15 21:20	20
Xylenes, Total	559		20.0		ug/L			09/10/15 21:20	20
Styrene	ND		0.500		ug/L			09/10/15 16:41	1
Bromoform	0.576		0.500		ug/L			09/10/15 16:41	1
Isopropylbenzene	5.73		1.00		ug/L			09/10/15 16:41	1
Bromobenzene	27.1		0.500		ug/L			09/10/15 16:41	1
1,1,2,2-Tetrachloroethane	4.63		0.500		ug/L			09/10/15 16:41	1
1,2,3-Trichloropropane	66.7		0.500		ug/L			09/10/15 16:41	1
N-Propylbenzene	10.8		0.500		ug/L			09/10/15 16:41	1
2-Chlorotoluene	18.0		0.500		ug/L			09/10/15 16:41	1
4-Chlorotoluene	6.21		0.500		ug/L			09/10/15 16:41	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-37

Date Collected: 08/27/15 09:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-13

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**56.7**		0.500		ug/L			09/10/15 16:41	1
tert-Butylbenzene	**1.63**		0.500		ug/L			09/10/15 16:41	1
sec-Butylbenzene	**2.22**		0.500		ug/L			09/10/15 16:41	1
1,2,4-Trimethylbenzene	**103**		0.500		ug/L			09/10/15 16:41	1
p-Isopropyltoluene	**3.84**		0.500		ug/L			09/10/15 16:41	1
1,3-Dichlorobenzene	**29.9**		0.500		ug/L			09/10/15 16:41	1
1,4-Dichlorobenzene	**57.3**		0.500		ug/L			09/10/15 16:41	1
1,2-Dichlorobenzene	**467**		10.0		ug/L			09/10/15 21:20	20
n-Butylbenzene	**3.47**		0.500		ug/L			09/10/15 16:41	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 16:41	1
1,2,4-Trichlorobenzene	**3.26**		0.500		ug/L			09/10/15 16:41	1
Naphthalene	**32.2**		5.00		ug/L			09/10/15 16:41	1
1,2,3-Trichlorobenzene	**0.855**		0.500		ug/L			09/10/15 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/10/15 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*09/10/15 21:20*	*20*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*09/10/15 21:48*	*200*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/10/15 22:16*	*1000*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/10/15 16:41*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/10/15 21:20*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/10/15 21:48*	*200*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/10/15 22:16*	*1000*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*09/10/15 16:41*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*09/10/15 21:20*	*20*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*09/10/15 21:48*	*200*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/10/15 22:16*	*1000*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/10/15 16:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/10/15 21:20*	*20*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/10/15 21:48*	*200*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/10/15 22:16*	*1000*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:05	1
Barium	**681**		10.0		ug/L		09/01/15 13:48	09/02/15 12:05	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:05	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:05	1
Manganese	**47300**		300		ug/L		09/01/15 13:48	09/14/15 14:40	20
Lead	**6.60**		5.00		ug/L		09/01/15 13:48	09/02/15 12:05	1
Selenium	**20.6**		10.0		ug/L		09/01/15 13:48	09/02/15 12:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:16	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-10

Date Collected: 08/27/15 10:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-14

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.92**		0.500		ug/L			09/10/15 17:09	1
Chloromethane	ND		0.500		ug/L			09/10/15 17:09	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 17:09	1
Bromomethane	ND		0.500		ug/L			09/10/15 17:09	1
Chloroethane	ND		0.500		ug/L			09/10/15 17:09	1
Trichlorofluoromethane	**1.93**		0.500		ug/L			09/10/15 17:09	1
1,1-Dichloroethene	**3.67**		0.500		ug/L			09/10/15 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.736**		0.500		ug/L			09/10/15 17:09	1
Methylene Chloride	**1600**		100		ug/L			09/10/15 20:24	20
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 17:09	1
Methyl tert-butyl ether	**1.24**		0.500		ug/L			09/10/15 17:09	1
1,1-Dichloroethane	**2.61**		0.500		ug/L			09/10/15 17:09	1
cis-1,2-Dichloroethene	**1.08**		0.500		ug/L			09/10/15 17:09	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 17:09	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 17:09	1
Chloroform	**14200**		100		ug/L			09/10/15 20:52	200
1,1,1-Trichloroethane	**0.743**		0.500		ug/L			09/10/15 17:09	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 17:09	1
Carbon tetrachloride	**60.7**		0.500		ug/L			09/10/15 17:09	1
Benzene	**331**		10.0		ug/L			09/10/15 20:24	20
1,2-Dichloroethane	**90.5**		0.500		ug/L			09/10/15 17:09	1
Trichloroethene	**190**		10.0		ug/L			09/10/15 20:24	20
1,2-Dichloropropane	**741**		10.0		ug/L			09/10/15 20:24	20
Dibromomethane	ND		0.500		ug/L			09/10/15 17:09	1
Bromodichloromethane	**61.5**		0.500		ug/L			09/10/15 17:09	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 17:09	1
Toluene	**32.5**		0.500		ug/L			09/10/15 17:09	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 17:09	1
1,1,2-Trichloroethane	**44.9**		0.500		ug/L			09/10/15 17:09	1
1,3-Dichloropropane	**4.38**		0.500		ug/L			09/10/15 17:09	1
Tetrachloroethene	**73.1**		0.500		ug/L			09/10/15 17:09	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 17:09	1
1,2-Dibromoethane (EDB)	**308**		10.0		ug/L			09/10/15 20:24	20
Chlorobenzene	**40.2**		0.500		ug/L			09/10/15 17:09	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 17:09	1
Ethylbenzene	**33.9**		0.500		ug/L			09/10/15 17:09	1
m,p-Xylene	**65.4**		0.500		ug/L			09/10/15 17:09	1
o-Xylene	**93.1**		0.500		ug/L			09/10/15 17:09	1
Xylenes, Total	**159**		1.00		ug/L			09/10/15 17:09	1
Styrene	ND		0.500		ug/L			09/10/15 17:09	1
Bromoform	**0.905**		0.500		ug/L			09/10/15 17:09	1
Isopropylbenzene	**1.56**		1.00		ug/L			09/10/15 17:09	1
Bromobenzene	**5.40**		0.500		ug/L			09/10/15 17:09	1
1,1,2,2-Tetrachloroethane	**7.61**		0.500		ug/L			09/10/15 17:09	1
1,2,3-Trichloropropane	**18.8**		0.500		ug/L			09/10/15 17:09	1
N-Propylbenzene	**3.02**		0.500		ug/L			09/10/15 17:09	1
2-Chlorotoluene	**5.21**		0.500		ug/L			09/10/15 17:09	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 17:09	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-10

Date Collected: 08/27/15 10:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-14

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**18.0**		0.500		ug/L			09/10/15 17:09	1
tert-Butylbenzene	**0.536**		0.500		ug/L			09/10/15 17:09	1
sec-Butylbenzene	**0.524**		0.500		ug/L			09/10/15 17:09	1
1,2,4-Trimethylbenzene	**28.7**		0.500		ug/L			09/10/15 17:09	1
p-Isopropyltoluene	**1.19**		0.500		ug/L			09/10/15 17:09	1
1,3-Dichlorobenzene	**6.52**		0.500		ug/L			09/10/15 17:09	1
1,4-Dichlorobenzene	**11.6**		0.500		ug/L			09/10/15 17:09	1
1,2-Dichlorobenzene	**89.7**		0.500		ug/L			09/10/15 17:09	1
n-Butylbenzene	**1.12**		0.500		ug/L			09/10/15 17:09	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 17:09	1
1,2,4-Trichlorobenzene	**1.21**		0.500		ug/L			09/10/15 17:09	1
Naphthalene	**9.16**		5.00		ug/L			09/10/15 17:09	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/10/15 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*09/10/15 20:24*	*20*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*09/10/15 20:52*	*200*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*09/10/15 17:09*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*09/10/15 20:24*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/10/15 20:52*	*200*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/10/15 17:09*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/10/15 20:24*	*20*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/10/15 20:52*	*200*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/10/15 17:09*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/10/15 20:24*	*20*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/10/15 20:52*	*200*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:10	1
Barium	**53.8**		10.0		ug/L		09/01/15 13:48	09/02/15 12:10	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:10	1
Chromium	**5.00**		5.00		ug/L		09/01/15 13:48	09/02/15 12:10	1
Manganese	**1810**		15.0		ug/L		09/01/15 13:48	09/02/15 12:10	1
Lead	**6.90**		5.00		ug/L		09/01/15 13:48	09/02/15 12:10	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:18	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12S

Date Collected: 08/27/15 12:10
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-15

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 13:52	1
Chloromethane	ND		0.500		ug/L			09/10/15 13:52	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 13:52	1
Bromomethane	ND		0.500		ug/L			09/10/15 13:52	1
Chloroethane	ND		0.500		ug/L			09/10/15 13:52	1
Trichlorofluoromethane	**1.59**		0.500		ug/L			09/10/15 13:52	1
1,1-Dichloroethene	**8.90**		0.500		ug/L			09/10/15 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 13:52	1
Methylene Chloride	**873**		100		ug/L			09/10/15 20:55	20
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 13:52	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 13:52	1
1,1-Dichloroethane	**10.8**		0.500		ug/L			09/10/15 13:52	1
cis-1,2-Dichloroethene	**0.806**		0.500		ug/L			09/10/15 13:52	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 13:52	1
Bromochloromethane	**3.27**		0.500		ug/L			09/10/15 13:52	1
Chloroform	**12000**		100		ug/L			09/10/15 21:21	200
1,1,1-Trichloroethane	**1.38**		0.500		ug/L			09/10/15 13:52	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 13:52	1
Carbon tetrachloride	**239**		10.0		ug/L			09/10/15 20:55	20
Benzene	**169**		0.500		ug/L			09/10/15 13:52	1
1,2-Dichloroethane	**93.3**		0.500		ug/L			09/10/15 13:52	1
Trichloroethene	**375**		10.0		ug/L			09/10/15 20:55	20
1,2-Dichloropropane	**20300**		100		ug/L			09/10/15 21:21	200
Dibromomethane	**0.682**		0.500		ug/L			09/10/15 13:52	1
Bromodichloromethane	**22.1**		0.500		ug/L			09/10/15 13:52	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 13:52	1
Toluene	**142**		0.500		ug/L			09/10/15 13:52	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 13:52	1
1,1,2-Trichloroethane	**2250**		10.0		ug/L			09/10/15 20:55	20
1,3-Dichloropropane	**176**		0.500		ug/L			09/10/15 13:52	1
Tetrachloroethene	**123**		0.500		ug/L			09/10/15 13:52	1
Dibromochloromethane	**0.924**		0.500		ug/L			09/10/15 13:52	1
1,2-Dibromoethane (EDB)	**5790**		100		ug/L			09/10/15 21:21	200
Chlorobenzene	**47.3**		0.500		ug/L			09/10/15 13:52	1
1,1,1,2-Tetrachloroethane	**2.29**		0.500		ug/L			09/10/15 13:52	1
Ethylbenzene	**21.0**		0.500		ug/L			09/10/15 13:52	1
m,p-Xylene	**33.1**		0.500		ug/L			09/10/15 13:52	1
o-Xylene	**42.2**		0.500		ug/L			09/10/15 13:52	1
Xylenes, Total	**75.3**		1.00		ug/L			09/10/15 13:52	1
Styrene	ND		0.500		ug/L			09/10/15 13:52	1
Bromoform	**4.16**		0.500		ug/L			09/10/15 13:52	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 13:52	1
Bromobenzene	**3.30**		0.500		ug/L			09/10/15 13:52	1
1,1,2,2-Tetrachloroethane	**5.58**		0.500		ug/L			09/10/15 13:52	1
1,2,3-Trichloropropane	**1280**		10.0		ug/L			09/10/15 20:55	20
N-Propylbenzene	**0.602**		0.500		ug/L			09/10/15 13:52	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 13:52	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 13:52	1
1,3,5-Trimethylbenzene	**2.26**		0.500		ug/L			09/10/15 13:52	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12S

Date Collected: 08/27/15 12:10
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-15

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 13:52	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 13:52	1
1,2,4-Trimethylbenzene	**1.43**		0.500		ug/L			09/10/15 13:52	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 13:52	1
1,3-Dichlorobenzene	**0.756**		0.500		ug/L			09/10/15 13:52	1
1,4-Dichlorobenzene	**3.77**		0.500		ug/L			09/10/15 13:52	1
1,2-Dichlorobenzene	**5.35**		0.500		ug/L			09/10/15 13:52	1
n-Butylbenzene	**0.748**		0.500		ug/L			09/10/15 13:52	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 13:52	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 13:52	1
Naphthalene	ND		5.00		ug/L			09/10/15 13:52	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/15 13:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/15 20:55*	*20*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/15 21:21*	*200*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/10/15 13:52*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/10/15 20:55*	*20*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/10/15 21:21*	*200*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/10/15 13:52*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/10/15 20:55*	*20*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*09/10/15 21:21*	*200*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/10/15 13:52*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*09/10/15 20:55*	*20*
Toluene-d8 (Surr)	*110*		*70 - 130*		*09/10/15 21:21*	*200*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:14	1
Barium	**574**		10.0		ug/L		09/01/15 13:48	09/02/15 12:14	1
Cadmium	**5.00**		1.00		ug/L		09/01/15 13:48	09/02/15 12:14	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:14	1
Manganese	**31000**		300		ug/L		09/01/15 13:48	09/14/15 14:44	20
Lead	**5.40**		5.00		ug/L		09/01/15 13:48	09/02/15 12:14	1
Selenium	**13.3**		10.0		ug/L		09/01/15 13:48	09/02/15 12:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:26	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-1

Date Collected: 08/27/15 14:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-16

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 14:20	1
Chloromethane	ND		0.500		ug/L			09/10/15 14:20	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 14:20	1
Bromomethane	ND		0.500		ug/L			09/10/15 14:20	1
Chloroethane	ND		0.500		ug/L			09/10/15 14:20	1
Trichlorofluoromethane	ND		0.500		ug/L			09/10/15 14:20	1
1,1-Dichloroethene	ND		0.500		ug/L			09/10/15 14:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.543**		0.500		ug/L			09/10/15 14:20	1
Methylene Chloride	**26.4**		5.00		ug/L			09/10/15 14:20	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 14:20	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 14:20	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 14:20	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 14:20	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 14:20	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 14:20	1
Chloroform	**386**		10.0		ug/L			09/10/15 20:28	20
1,1,1-Trichloroethane	ND		0.500		ug/L			09/10/15 14:20	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 14:20	1
Carbon tetrachloride	**22.2**		0.500		ug/L			09/10/15 14:20	1
Benzene	**1320**		10.0		ug/L			09/10/15 20:28	20
1,2-Dichloroethane	ND		0.500		ug/L			09/10/15 14:20	1
Trichloroethene	**31.7**		0.500		ug/L			09/10/15 14:20	1
1,2-Dichloropropane	**125**		0.500		ug/L			09/10/15 14:20	1
Dibromomethane	ND		0.500		ug/L			09/10/15 14:20	1
Bromodichloromethane	**2.09**		0.500		ug/L			09/10/15 14:20	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 14:20	1
Toluene	ND		0.500		ug/L			09/10/15 14:20	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 14:20	1
1,1,2-Trichloroethane	**2.27**		0.500		ug/L			09/10/15 20:02	1
1,3-Dichloropropane	ND		0.500		ug/L			09/10/15 14:20	1
Tetrachloroethene	**0.742**		0.500		ug/L			09/10/15 14:20	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 14:20	1
1,2-Dibromoethane (EDB)	**6.78**		0.500		ug/L			09/10/15 20:02	1
Chlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 14:20	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
m,p-Xylene	**0.861**		0.500		ug/L			09/10/15 14:20	1
o-Xylene	ND		0.500		ug/L			09/10/15 14:20	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 14:20	1
Styrene	ND		0.500		ug/L			09/10/15 14:20	1
Bromoform	ND		0.500		ug/L			09/10/15 14:20	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 14:20	1
Bromobenzene	ND		0.500		ug/L			09/10/15 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 14:20	1
1,2,3-Trichloropropane	**2.45**		0.500		ug/L			09/10/15 20:02	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 14:20	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 14:20	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-1

Date Collected: 08/27/15 14:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-16

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 14:20	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 14:20	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 14:20	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1
Naphthalene	ND		5.00		ug/L			09/10/15 14:20	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/10/15 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/15 20:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/15 20:28*	*20*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/10/15 14:20*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*09/10/15 20:02*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*09/10/15 20:28*	*20*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*09/10/15 14:20*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/10/15 20:02*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*09/10/15 20:28*	*20*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/10/15 14:20*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*09/10/15 20:02*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*09/10/15 20:28*	*20*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:19	1
Barium	**32.3**		10.0		ug/L		09/01/15 13:48	09/02/15 12:19	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:19	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:19	1
Manganese	**60.1**		15.0		ug/L		09/01/15 13:48	09/02/15 12:19	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:19	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:28	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-64

Date Collected: 08/27/15 14:50
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-17

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 14:48	1
Chloromethane	ND		0.500		ug/L			09/10/15 14:48	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 14:48	1
Bromomethane	ND		0.500		ug/L			09/10/15 14:48	1
Chloroethane	ND		0.500		ug/L			09/10/15 14:48	1
Trichlorofluoromethane	ND		0.500		ug/L			09/10/15 14:48	1
1,1-Dichloroethene	ND		0.500		ug/L			09/10/15 14:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 14:48	1
Methylene Chloride	ND		5.00		ug/L			09/10/15 14:48	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 14:48	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 14:48	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 14:48	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 14:48	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 14:48	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 14:48	1
Chloroform	ND		0.500		ug/L			09/10/15 19:10	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/10/15 14:48	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 14:48	1
Carbon tetrachloride	ND		0.500		ug/L			09/10/15 14:48	1
Benzene	ND		0.500		ug/L			09/10/15 14:48	1
1,2-Dichloroethane	ND		0.500		ug/L			09/10/15 14:48	1
Trichloroethene	ND		0.500		ug/L			09/10/15 14:48	1
1,2-Dichloropropane	ND		0.500		ug/L			09/10/15 19:10	1
Dibromomethane	ND		0.500		ug/L			09/10/15 14:48	1
Bromodichloromethane	ND		0.500		ug/L			09/10/15 14:48	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 14:48	1
Toluene	ND		0.500		ug/L			09/10/15 14:48	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 14:48	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/10/15 14:48	1
1,3-Dichloropropane	ND		0.500		ug/L			09/10/15 14:48	1
Tetrachloroethene	ND		0.500		ug/L			09/10/15 14:48	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 14:48	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/10/15 19:10	1
Chlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 14:48	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 14:48	1
o-Xylene	ND		0.500		ug/L			09/10/15 14:48	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 14:48	1
Styrene	ND		0.500		ug/L			09/10/15 14:48	1
Bromoform	ND		0.500		ug/L			09/10/15 14:48	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 14:48	1
Bromobenzene	ND		0.500		ug/L			09/10/15 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 14:48	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/10/15 14:48	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 14:48	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 14:48	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 14:48	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-64

Date Collected: 08/27/15 14:50
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-17

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 14:48	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 14:48	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 14:48	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1
Naphthalene	ND		5.00		ug/L			09/10/15 14:48	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*09/10/15 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/15 19:10*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/10/15 14:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/10/15 19:10*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/10/15 14:48*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/10/15 19:10*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/10/15 14:48*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*09/10/15 19:10*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:23	1
Barium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:23	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:23	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:23	1
Manganese	ND		15.0		ug/L		09/01/15 13:48	09/02/15 12:23	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:23	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:31	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-6

Date Collected: 08/28/15 13:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-18

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 15:17	1
Chloromethane	ND		0.500		ug/L			09/10/15 15:17	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 15:17	1
Bromomethane	ND		0.500		ug/L			09/10/15 15:17	1
Chloroethane	ND		0.500		ug/L			09/10/15 15:17	1
Trichlorofluoromethane	ND		0.500		ug/L			09/10/15 15:17	1
1,1-Dichloroethene	ND		0.500		ug/L			09/10/15 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 15:17	1
Methylene Chloride	ND		5.00		ug/L			09/10/15 15:17	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 15:17	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 15:17	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 15:17	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 15:17	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 15:17	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 15:17	1
Chloroform	**75.6**		0.500		ug/L			09/10/15 15:17	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/10/15 15:17	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 15:17	1
Carbon tetrachloride	ND		0.500		ug/L			09/10/15 15:17	1
Benzene	ND		0.500		ug/L			09/10/15 15:17	1
1,2-Dichloroethane	ND		0.500		ug/L			09/10/15 15:17	1
Trichloroethene	ND		0.500		ug/L			09/10/15 15:17	1
1,2-Dichloropropane	ND		0.500		ug/L			09/10/15 19:36	1
Dibromomethane	ND		0.500		ug/L			09/10/15 15:17	1
Bromodichloromethane	ND		0.500		ug/L			09/10/15 15:17	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 15:17	1
Toluene	ND		0.500		ug/L			09/10/15 15:17	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 15:17	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/10/15 15:17	1
1,3-Dichloropropane	ND		0.500		ug/L			09/10/15 15:17	1
Tetrachloroethene	ND		0.500		ug/L			09/10/15 15:17	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 15:17	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/10/15 19:36	1
Chlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 15:17	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 15:17	1
o-Xylene	ND		0.500		ug/L			09/10/15 15:17	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 15:17	1
Styrene	ND		0.500		ug/L			09/10/15 15:17	1
Bromoform	ND		0.500		ug/L			09/10/15 15:17	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 15:17	1
Bromobenzene	ND		0.500		ug/L			09/10/15 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 15:17	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/10/15 15:17	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 15:17	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 15:17	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 15:17	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-6

Date Collected: 08/28/15 13:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-18

Matrix: Water

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 15:17	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 15:17	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 15:17	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1
Naphthalene	ND		5.00		ug/L			09/10/15 15:17	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*09/10/15 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/15 19:36*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/10/15 15:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*09/10/15 19:36*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/10/15 15:17*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/10/15 19:36*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/10/15 15:17*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*09/10/15 19:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:27	1
Barium	**34.1**		10.0		ug/L		09/01/15 13:48	09/02/15 12:27	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 12:27	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:27	1
Manganese	**824**		15.0		ug/L		09/01/15 13:48	09/02/15 12:27	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 12:27	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 12:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 23:33	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-86296-19

Date Collected: 08/28/15 14:00
Matrix: Water
Date Received: 08/29/15 09:00

Method: SM6200-B - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 06:10	1
Chloromethane	ND		0.500		ug/L			09/05/15 06:10	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 06:10	1
Bromomethane	ND		0.500		ug/L			09/05/15 06:10	1
Chloroethane	ND		0.500		ug/L			09/05/15 06:10	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 06:10	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 06:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 06:10	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 06:10	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 06:10	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 06:10	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 06:10	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 06:10	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 06:10	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 06:10	1
Chloroform	ND		0.500		ug/L			09/05/15 06:10	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 06:10	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 06:10	1
Carbon tetrachloride	ND		0.500		ug/L			09/05/15 06:10	1
Benzene	ND		0.500		ug/L			09/05/15 06:10	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 06:10	1
Trichloroethene	ND		0.500		ug/L			09/05/15 06:10	1
1,2-Dichloropropane	ND		0.500		ug/L			09/05/15 06:10	1
Dibromomethane	ND		0.500		ug/L			09/05/15 06:10	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 06:10	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 06:10	1
Toluene	ND		0.500		ug/L			09/05/15 06:10	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 06:10	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 06:10	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 06:10	1
Tetrachloroethene	ND		0.500		ug/L			09/05/15 06:10	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 06:10	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 06:10	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 06:10	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 06:10	1
o-Xylene	ND		0.500		ug/L			09/05/15 06:10	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 06:10	1
Styrene	ND		0.500		ug/L			09/05/15 06:10	1
Bromoform	ND		0.500		ug/L			09/05/15 06:10	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 06:10	1
Bromobenzene	ND		0.500		ug/L			09/05/15 06:10	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 06:10	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 06:10	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 06:10	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 06:10	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 06:10	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-86296-19

Date Collected: 08/28/15 14:00

Matrix: Water

Date Received: 08/29/15 09:00

Method: SM6200-B - Volatile Organic Compounds (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 06:10	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 06:10	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 06:10	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1
Naphthalene	ND		5.00		ug/L			09/05/15 06:10	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*09/05/15 06:10*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/05/15 06:10*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/05/15 06:10*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/15 06:10*	*1*

Method: SM6200-B - Volatile Organic Compounds

Lab Sample ID: MB 490-279328/7
Matrix: Water
Analysis Batch: 279328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 05:42	1
Chloromethane	ND		0.500		ug/L			09/05/15 05:42	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 05:42	1
Bromomethane	ND		0.500		ug/L			09/05/15 05:42	1
Chloroethane	ND		0.500		ug/L			09/05/15 05:42	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 05:42	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 05:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 05:42	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 05:42	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 05:42	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 05:42	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 05:42	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 05:42	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 05:42	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 05:42	1
Chloroform	ND		0.500		ug/L			09/05/15 05:42	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 05:42	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 05:42	1
Carbon tetrachloride	ND		0.500		ug/L			09/05/15 05:42	1
Benzene	ND		0.500		ug/L			09/05/15 05:42	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 05:42	1
Trichloroethene	ND		0.500		ug/L			09/05/15 05:42	1
1,2-Dichloropropane	ND		0.500		ug/L			09/05/15 05:42	1
Dibromomethane	ND		0.500		ug/L			09/05/15 05:42	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 05:42	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 05:42	1
Toluene	ND		0.500		ug/L			09/05/15 05:42	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 05:42	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 05:42	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 05:42	1
Tetrachloroethene	ND		0.500		ug/L			09/05/15 05:42	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 05:42	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 05:42	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 05:42	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 05:42	1
o-Xylene	ND		0.500		ug/L			09/05/15 05:42	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 05:42	1
Styrene	ND		0.500		ug/L			09/05/15 05:42	1
Bromoform	ND		0.500		ug/L			09/05/15 05:42	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 05:42	1
Bromobenzene	ND		0.500		ug/L			09/05/15 05:42	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 05:42	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 05:42	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 05:42	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 05:42	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-279328/7
Matrix: Water
Analysis Batch: 279328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 05:42	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 05:42	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 05:42	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1
Naphthalene	ND		5.00		ug/L			09/05/15 05:42	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 05:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*09/05/15 05:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/05/15 05:42*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/05/15 05:42*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/05/15 05:42*	*1*

Lab Sample ID: LCS 490-279328/3
Matrix: Water
Analysis Batch: 279328

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	50.46		ug/L		101	60 - 140
Chloromethane	50.0	47.11		ug/L		94	60 - 140
Vinyl chloride	50.0	47.70		ug/L		95	60 - 140
Bromomethane	50.0	37.75		ug/L		76	60 - 140
Chloroethane	50.0	44.77		ug/L		90	60 - 140
Trichlorofluoromethane	50.0	45.92		ug/L		92	60 - 140
1,1-Dichloroethene	50.0	47.00		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.74		ug/L		97	70 - 130
Methylene Chloride	50.0	47.23		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	45.79		ug/L		92	70 - 130
Methyl tert-butyl ether	50.0	45.26		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	44.72		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	44.65		ug/L		89	70 - 130
2,2-Dichloropropane	50.0	40.87		ug/L		82	70 - 130
Bromochloromethane	50.0	60.72		ug/L		121	70 - 130
Chloroform	50.0	54.68		ug/L		109	70 - 130
1,1,1-Trichloroethane	50.0	47.64		ug/L		95	70 - 130
1,1-Dichloropropene	50.0	48.41		ug/L		97	70 - 130
Carbon tetrachloride	50.0	50.91		ug/L		102	70 - 130
Benzene	50.0	50.01		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	45.86		ug/L		92	70 - 130
Trichloroethene	50.0	52.77		ug/L		106	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-279328/3
Matrix: Water
Analysis Batch: 279328

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	50.66		ug/L		101	70 - 130
Dibromomethane	50.0	51.23		ug/L		102	70 - 130
Bromodichloromethane	50.0	49.39		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	52.29		ug/L		105	70 - 130
Toluene	50.0	49.17		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	52.24		ug/L		104	70 - 130
1,1,2-Trichloroethane	50.0	52.80		ug/L		106	70 - 130
1,3-Dichloropropane	50.0	53.58		ug/L		107	70 - 130
Tetrachloroethene	50.0	48.45		ug/L		97	70 - 130
Dibromochloromethane	50.0	53.85		ug/L		108	70 - 130
Chlorobenzene	50.0	50.52		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.14		ug/L		106	70 - 130
Ethylbenzene	50.0	50.26		ug/L		101	70 - 130
m,p-Xylene	50.0	50.99		ug/L		102	70 - 130
o-Xylene	50.0	50.05		ug/L		100	70 - 130
Xylenes, Total	100	101.0		ug/L		101	70 - 130
Styrene	50.0	50.36		ug/L		101	70 - 130
Bromoform	50.0	53.52		ug/L		107	70 - 130
Isopropylbenzene	50.0	51.18		ug/L		102	70 - 130
Bromobenzene	50.0	48.21		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.11		ug/L		98	70 - 130
1,2,3-Trichloropropane	50.0	53.36		ug/L		107	70 - 130
N-Propylbenzene	50.0	48.02		ug/L		96	70 - 130
2-Chlorotoluene	50.0	48.30		ug/L		97	70 - 130
4-Chlorotoluene	50.0	49.43		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	50.0	49.97		ug/L		100	70 - 130
tert-Butylbenzene	50.0	49.08		ug/L		98	70 - 130
sec-Butylbenzene	50.0	48.94		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	50.0	50.46		ug/L		101	70 - 130
p-Isopropyltoluene	50.0	45.65		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	50.64		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	50.24		ug/L		100	70 - 130
1,2-Dichlorobenzene	50.0	51.85		ug/L		104	70 - 130
n-Butylbenzene	50.0	42.39		ug/L		85	70 - 130
Hexachlorobutadiene	50.0	49.18		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	50.0	52.74		ug/L		105	70 - 130
Naphthalene	50.0	50.17		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	50.0	52.22		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-279328/4
Matrix: Water
Analysis Batch: 279328

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	51.50		ug/L		103	60 - 140	2	20
Chloromethane	50.0	47.44		ug/L		95	60 - 140	1	20
Vinyl chloride	50.0	49.06		ug/L		98	60 - 140	3	20
Bromomethane	50.0	40.21		ug/L		80	60 - 140	6	20
Chloroethane	50.0	45.49		ug/L		91	60 - 140	2	20
Trichlorofluoromethane	50.0	47.05		ug/L		94	60 - 140	2	20
1,1-Dichloroethene	50.0	47.75		ug/L		95	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.30		ug/L		99	70 - 130	1	20
Methylene Chloride	50.0	47.90		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	50.0	46.93		ug/L		94	70 - 130	2	20
Methyl tert-butyl ether	50.0	46.26		ug/L		93	70 - 130	2	20
1,1-Dichloroethane	50.0	45.63		ug/L		91	70 - 130	2	20
cis-1,2-Dichloroethene	50.0	45.85		ug/L		92	70 - 130	3	20
2,2-Dichloropropane	50.0	41.66		ug/L		83	70 - 130	2	20
Bromochloromethane	50.0	62.09		ug/L		124	70 - 130	2	20
Chloroform	50.0	55.97		ug/L		112	70 - 130	2	20
1,1,1-Trichloroethane	50.0	48.72		ug/L		97	70 - 130	2	20
1,1-Dichloropropene	50.0	50.31		ug/L		101	70 - 130	4	20
Carbon tetrachloride	50.0	52.29		ug/L		105	70 - 130	3	20
Benzene	50.0	51.22		ug/L		102	70 - 130	2	20
1,2-Dichloroethane	50.0	47.05		ug/L		94	70 - 130	3	20
Trichloroethene	50.0	54.10		ug/L		108	70 - 130	2	20
1,2-Dichloropropane	50.0	50.63		ug/L		101	70 - 130	0	20
Dibromomethane	50.0	51.14		ug/L		102	70 - 130	0	20
Bromodichloromethane	50.0	50.65		ug/L		101	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	52.17		ug/L		104	70 - 130	0	20
Toluene	50.0	49.60		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	52.72		ug/L		105	70 - 130	1	20
1,1,2-Trichloroethane	50.0	51.95		ug/L		104	70 - 130	2	20
1,3-Dichloropropane	50.0	53.63		ug/L		107	70 - 130	0	20
Tetrachloroethene	50.0	48.84		ug/L		98	70 - 130	1	20
Dibromochloromethane	50.0	54.64		ug/L		109	70 - 130	1	20
Chlorobenzene	50.0	51.10		ug/L		102	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	53.37		ug/L		107	70 - 130	0	20
Ethylbenzene	50.0	51.00		ug/L		102	70 - 130	1	20
m,p-Xylene	50.0	52.05		ug/L		104	70 - 130	2	20
o-Xylene	50.0	50.77		ug/L		102	70 - 130	1	20
Xylenes, Total	100	102.8		ug/L		103	70 - 130	2	20
Styrene	50.0	50.44		ug/L		101	70 - 130	0	20
Bromoform	50.0	53.44		ug/L		107	70 - 130	0	20
Isopropylbenzene	50.0	52.13		ug/L		104	70 - 130	2	20
Bromobenzene	50.0	48.15		ug/L		96	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	49.11		ug/L		98	70 - 130	0	20
1,2,3-Trichloropropane	50.0	53.73		ug/L		107	70 - 130	1	20
N-Propylbenzene	50.0	48.49		ug/L		97	70 - 130	1	20
2-Chlorotoluene	50.0	48.86		ug/L		98	70 - 130	1	20
4-Chlorotoluene	50.0	50.14		ug/L		100	70 - 130	1	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-279328/4
Matrix: Water
Analysis Batch: 279328

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	50.0	49.81		ug/L		100	70 - 130	0	20
tert-Butylbenzene	50.0	49.20		ug/L		98	70 - 130	0	20
sec-Butylbenzene	50.0	50.01		ug/L		100	70 - 130	2	20
1,2,4-Trimethylbenzene	50.0	51.21		ug/L		102	70 - 130	1	20
p-Isopropyltoluene	50.0	46.67		ug/L		93	70 - 130	2	20
1,3-Dichlorobenzene	50.0	50.90		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene	50.0	50.63		ug/L		101	70 - 130	1	20
1,2-Dichlorobenzene	50.0	51.80		ug/L		104	70 - 130	0	20
n-Butylbenzene	50.0	42.66		ug/L		85	70 - 130	1	20
Hexachlorobutadiene	50.0	49.69		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	52.04		ug/L		104	70 - 130	1	20
Naphthalene	50.0	51.99		ug/L		104	70 - 130	4	20
1,2,3-Trichlorobenzene	50.0	51.41		ug/L		103	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-86257-B-29 MS
Matrix: Water
Analysis Batch: 279328

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		50.0	57.37		ug/L		115	60 - 140
Chloromethane	ND		50.0	51.00		ug/L		102	60 - 140
Vinyl chloride	ND		50.0	55.05		ug/L		110	60 - 140
Bromomethane	ND		50.0	34.07		ug/L		68	60 - 140
Chloroethane	ND		50.0	50.65		ug/L		101	60 - 140
Trichlorofluoromethane	ND		50.0	53.90		ug/L		108	60 - 140
1,1-Dichloroethene	0.705		50.0	54.76		ug/L		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND		50.0	59.84		ug/L		120	70 - 130
Methylene Chloride	ND		50.0	50.72		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		50.0	51.41		ug/L		103	70 - 130
Methyl tert-butyl ether	ND		50.0	44.16		ug/L		88	70 - 130
1,1-Dichloroethane	ND		50.0	48.68		ug/L		97	70 - 130
cis-1,2-Dichloroethene	1.11		50.0	49.67		ug/L		97	70 - 130
2,2-Dichloropropane	ND		50.0	53.31		ug/L		107	70 - 130
Bromochloromethane	ND		50.0	63.60		ug/L		127	70 - 130
Chloroform	ND		50.0	62.65		ug/L		125	70 - 130
1,1,1-Trichloroethane	ND		50.0	52.48		ug/L		105	70 - 130
1,1-Dichloropropene	ND		50.0	54.66		ug/L		109	70 - 130
Carbon tetrachloride	ND		50.0	58.02		ug/L		116	70 - 130
Benzene	ND		50.0	53.90		ug/L		108	70 - 130
1,2-Dichloroethane	ND		50.0	47.33		ug/L		95	70 - 130
Trichloroethene	ND		50.0	55.60		ug/L		110	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-86257-B-29 MS
Matrix: Water
Analysis Batch: 279328

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND		50.0	52.33		ug/L		105	70 - 130
Dibromomethane	ND		50.0	51.37		ug/L		103	70 - 130
Bromodichloromethane	ND		50.0	51.81		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		50.0	53.48		ug/L		107	70 - 130
Toluene	ND		50.0	51.53		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		50.0	52.88		ug/L		106	70 - 130
1,1,2-Trichloroethane	ND		50.0	51.94		ug/L		104	70 - 130
1,3-Dichloropropane	ND		50.0	52.23		ug/L		104	70 - 130
Tetrachloroethene	ND		50.0	53.88		ug/L		107	70 - 130
Dibromochloromethane	ND		50.0	53.91		ug/L		108	70 - 130
Chlorobenzene	ND		50.0	53.00		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	ND		50.0	52.79		ug/L		106	70 - 130
Ethylbenzene	ND		50.0	53.45		ug/L		107	70 - 130
m,p-Xylene	ND		50.0	54.05		ug/L		108	70 - 130
o-Xylene	ND		50.0	51.97		ug/L		104	70 - 130
Xylenes, Total	ND		100	106.0		ug/L		106	70 - 130
Styrene	ND		50.0	51.86		ug/L		104	70 - 130
Bromoform	ND		50.0	51.53		ug/L		103	70 - 130
Isopropylbenzene	ND		50.0	54.90		ug/L		110	70 - 130
Bromobenzene	ND		50.0	48.26		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	ND		50.0	50.35		ug/L		101	70 - 130
1,2,3-Trichloropropane	ND		50.0	51.19		ug/L		102	70 - 130
N-Propylbenzene	ND		50.0	51.87		ug/L		104	70 - 130
2-Chlorotoluene	ND		50.0	50.33		ug/L		101	70 - 130
4-Chlorotoluene	ND		50.0	51.26		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	ND		50.0	51.87		ug/L		104	70 - 130
tert-Butylbenzene	ND		50.0	52.08		ug/L		104	70 - 130
sec-Butylbenzene	ND		50.0	53.84		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	ND		50.0	53.19		ug/L		106	70 - 130
p-Isopropyltoluene	ND		50.0	49.62		ug/L		99	70 - 130
1,3-Dichlorobenzene	ND		50.0	52.04		ug/L		104	70 - 130
1,4-Dichlorobenzene	ND		50.0	51.62		ug/L		103	70 - 130
1,2-Dichlorobenzene	ND		50.0	51.71		ug/L		103	70 - 130
n-Butylbenzene	ND		50.0	47.20		ug/L		94	70 - 130
Hexachlorobutadiene	ND		50.0	54.37		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	ND		50.0	49.99		ug/L		100	70 - 130
Naphthalene	ND		50.0	44.83		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	ND		50.0	47.47		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-86257-C-29 MSD
Matrix: Water
Analysis Batch: 279328

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		50.0	55.06		ug/L		110	60 - 140	4	20
Chloromethane	ND		50.0	47.62		ug/L		95	60 - 140	7	20
Vinyl chloride	ND		50.0	52.27		ug/L		105	60 - 140	5	20
Bromomethane	ND		50.0	35.83		ug/L		72	60 - 140	5	20
Chloroethane	ND		50.0	47.49		ug/L		95	60 - 140	6	20
Trichlorofluoromethane	ND		50.0	51.53		ug/L		103	60 - 140	4	20
1,1-Dichloroethene	0.705		50.0	53.21		ug/L		105	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	57.61		ug/L		115	70 - 130	4	20
Methylene Chloride	ND		50.0	49.38		ug/L		99	70 - 130	3	20
trans-1,2-Dichloroethene	ND		50.0	49.47		ug/L		99	70 - 130	4	20
Methyl tert-butyl ether	ND		50.0	45.72		ug/L		91	70 - 130	3	20
1,1-Dichloroethane	ND		50.0	47.34		ug/L		94	70 - 130	3	20
cis-1,2-Dichloroethene	1.11		50.0	49.37		ug/L		97	70 - 130	1	20
2,2-Dichloropropane	ND		50.0	52.41		ug/L		105	70 - 130	2	20
Bromochloromethane	ND		50.0	62.63		ug/L		125	70 - 130	2	20
Chloroform	ND		50.0	59.12		ug/L		118	70 - 130	6	20
1,1,1-Trichloroethane	ND		50.0	52.25		ug/L		105	70 - 130	0	20
1,1-Dichloropropene	ND		50.0	54.14		ug/L		108	70 - 130	1	20
Carbon tetrachloride	ND		50.0	57.20		ug/L		114	70 - 130	1	20
Benzene	ND		50.0	53.85		ug/L		108	70 - 130	0	20
1,2-Dichloroethane	ND		50.0	47.84		ug/L		96	70 - 130	1	20
Trichloroethene	ND		50.0	54.17		ug/L		107	70 - 130	3	20
1,2-Dichloropropane	ND		50.0	53.76		ug/L		108	70 - 130	3	20
Dibromomethane	ND		50.0	52.67		ug/L		105	70 - 130	2	20
Bromodichloromethane	ND		50.0	51.70		ug/L		103	70 - 130	0	20
cis-1,3-Dichloropropene	ND		50.0	54.05		ug/L		108	70 - 130	1	20
Toluene	ND		50.0	51.67		ug/L		103	70 - 130	0	20
trans-1,3-Dichloropropene	ND		50.0	55.64		ug/L		111	70 - 130	5	20
1,1,2-Trichloroethane	ND		50.0	52.85		ug/L		106	70 - 130	2	20
1,3-Dichloropropane	ND		50.0	54.50		ug/L		109	70 - 130	4	20
Tetrachloroethene	ND		50.0	53.59		ug/L		107	70 - 130	1	20
Dibromochloromethane	ND		50.0	55.32		ug/L		111	70 - 130	3	20
Chlorobenzene	ND		50.0	52.55		ug/L		105	70 - 130	1	20
1,1,1,2-Tetrachloroethane	ND		50.0	53.32		ug/L		107	70 - 130	1	20
Ethylbenzene	ND		50.0	53.58		ug/L		107	70 - 130	0	20
m,p-Xylene	ND		50.0	54.09		ug/L		108	70 - 130	0	20
o-Xylene	ND		50.0	52.67		ug/L		105	70 - 130	1	20
Xylenes, Total	ND		100	106.8		ug/L		107	70 - 130	1	20
Styrene	ND		50.0	52.38		ug/L		105	70 - 130	1	20
Bromoform	ND		50.0	54.05		ug/L		108	70 - 130	5	20
Isopropylbenzene	ND		50.0	55.10		ug/L		110	70 - 130	0	20
Bromobenzene	ND		50.0	49.79		ug/L		100	70 - 130	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.01		ug/L		106	70 - 130	5	20
1,2,3-Trichloropropane	ND		50.0	53.23		ug/L		106	70 - 130	4	20
N-Propylbenzene	ND		50.0	52.24		ug/L		104	70 - 130	1	20
2-Chlorotoluene	ND		50.0	50.28		ug/L		101	70 - 130	0	20
4-Chlorotoluene	ND		50.0	51.89		ug/L		104	70 - 130	1	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: 490-86257-C-29 MSD
Matrix: Water
Analysis Batch: 279328

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	ND		50.0	52.50		ug/L		105	70 - 130	1	20
tert-Butylbenzene	ND		50.0	52.72		ug/L		105	70 - 130	1	20
sec-Butylbenzene	ND		50.0	53.95		ug/L		108	70 - 130	0	20
1,2,4-Trimethylbenzene	ND		50.0	53.45		ug/L		107	70 - 130	0	20
p-Isopropyltoluene	ND		50.0	50.01		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	ND		50.0	53.16		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	ND		50.0	52.89		ug/L		106	70 - 130	2	20
1,2-Dichlorobenzene	ND		50.0	53.44		ug/L		107	70 - 130	3	20
n-Butylbenzene	ND		50.0	47.76		ug/L		96	70 - 130	1	20
Hexachlorobutadiene	ND		50.0	55.21		ug/L		110	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		50.0	54.12		ug/L		108	70 - 130	8	20
Naphthalene	ND		50.0	51.29		ug/L		103	70 - 130	13	20
1,2,3-Trichlorobenzene	ND		50.0	53.20		ug/L		106	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 490-279479/7
Matrix: Water
Analysis Batch: 279479

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/05/15 18:24	1
Chloromethane	ND		0.500		ug/L			09/05/15 18:24	1
Vinyl chloride	ND		0.500		ug/L			09/05/15 18:24	1
Bromomethane	ND		0.500		ug/L			09/05/15 18:24	1
Chloroethane	ND		0.500		ug/L			09/05/15 18:24	1
Trichlorofluoromethane	ND		0.500		ug/L			09/05/15 18:24	1
1,1-Dichloroethene	ND		0.500		ug/L			09/05/15 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/05/15 18:24	1
Methylene Chloride	ND		5.00		ug/L			09/05/15 18:24	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 18:24	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/05/15 18:24	1
1,1-Dichloroethane	ND		0.500		ug/L			09/05/15 18:24	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/05/15 18:24	1
2,2-Dichloropropane	ND		0.500		ug/L			09/05/15 18:24	1
Bromochloromethane	ND		0.500		ug/L			09/05/15 18:24	1
Chloroform	ND		0.500		ug/L			09/05/15 18:24	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/05/15 18:24	1
1,1-Dichloropropene	ND		0.500		ug/L			09/05/15 18:24	1
Carbon tetrachloride	ND		0.500		ug/L			09/05/15 18:24	1
Benzene	ND		0.500		ug/L			09/05/15 18:24	1
1,2-Dichloroethane	ND		0.500		ug/L			09/05/15 18:24	1
Trichloroethene	ND		0.500		ug/L			09/05/15 18:24	1
1,2-Dichloropropane	ND		0.500		ug/L			09/05/15 18:24	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-279479/7
Matrix: Water
Analysis Batch: 279479

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.500		ug/L			09/05/15 18:24	1
Bromodichloromethane	ND		0.500		ug/L			09/05/15 18:24	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 18:24	1
Toluene	ND		0.500		ug/L			09/05/15 18:24	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/05/15 18:24	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/05/15 18:24	1
1,3-Dichloropropane	ND		0.500		ug/L			09/05/15 18:24	1
Tetrachloroethene	ND		0.500		ug/L			09/05/15 18:24	1
Dibromochloromethane	ND		0.500		ug/L			09/05/15 18:24	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/05/15 18:24	1
Chlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 18:24	1
Ethylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
m,p-Xylene	ND		0.500		ug/L			09/05/15 18:24	1
o-Xylene	ND		0.500		ug/L			09/05/15 18:24	1
Xylenes, Total	ND		1.00		ug/L			09/05/15 18:24	1
Styrene	ND		0.500		ug/L			09/05/15 18:24	1
Bromoform	ND		0.500		ug/L			09/05/15 18:24	1
Isopropylbenzene	ND		1.00		ug/L			09/05/15 18:24	1
Bromobenzene	ND		0.500		ug/L			09/05/15 18:24	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/05/15 18:24	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/05/15 18:24	1
N-Propylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
2-Chlorotoluene	ND		0.500		ug/L			09/05/15 18:24	1
4-Chlorotoluene	ND		0.500		ug/L			09/05/15 18:24	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
tert-Butylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
sec-Butylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
p-Isopropyltoluene	ND		0.500		ug/L			09/05/15 18:24	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1
n-Butylbenzene	ND		0.500		ug/L			09/05/15 18:24	1
Hexachlorobutadiene	ND		1.00		ug/L			09/05/15 18:24	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1
Naphthalene	ND		5.00		ug/L			09/05/15 18:24	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/05/15 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*09/05/15 18:24*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/05/15 18:24*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*09/05/15 18:24*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/05/15 18:24*	*1*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-279479/3
Matrix: Water
Analysis Batch: 279479

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	49.77		ug/L		100	60 - 140
Chloromethane	50.0	46.13		ug/L		92	60 - 140
Vinyl chloride	50.0	46.97		ug/L		94	60 - 140
Bromomethane	50.0	36.48		ug/L		73	60 - 140
Chloroethane	50.0	44.73		ug/L		89	60 - 140
Trichlorofluoromethane	50.0	45.77		ug/L		92	60 - 140
1,1-Dichloroethene	50.0	46.20		ug/L		92	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	48.00		ug/L		96	70 - 130
Methylene Chloride	50.0	47.44		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	43.29		ug/L		87	70 - 130
Methyl tert-butyl ether	50.0	43.56		ug/L		87	70 - 130
1,1-Dichloroethane	50.0	43.71		ug/L		87	70 - 130
cis-1,2-Dichloroethene	50.0	44.23		ug/L		88	70 - 130
2,2-Dichloropropane	50.0	44.17		ug/L		88	70 - 130
Bromochloromethane	50.0	60.84		ug/L		122	70 - 130
Chloroform	50.0	55.03		ug/L		110	70 - 130
1,1,1-Trichloroethane	50.0	47.83		ug/L		96	70 - 130
1,1-Dichloropropene	50.0	48.86		ug/L		98	70 - 130
Carbon tetrachloride	50.0	51.32		ug/L		103	70 - 130
Benzene	50.0	50.74		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	46.67		ug/L		93	70 - 130
Trichloroethene	50.0	51.04		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	51.95		ug/L		104	70 - 130
Dibromomethane	50.0	51.42		ug/L		103	70 - 130
Bromodichloromethane	50.0	49.96		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	53.23		ug/L		106	70 - 130
Toluene	50.0	48.92		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	53.48		ug/L		107	70 - 130
1,1,2-Trichloroethane	50.0	52.54		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	53.83		ug/L		108	70 - 130
Tetrachloroethene	50.0	48.06		ug/L		96	70 - 130
Dibromochloromethane	50.0	53.85		ug/L		108	70 - 130
Chlorobenzene	50.0	50.79		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.97		ug/L		104	70 - 130
Ethylbenzene	50.0	50.21		ug/L		100	70 - 130
m,p-Xylene	50.0	50.63		ug/L		101	70 - 130
o-Xylene	50.0	49.84		ug/L		100	70 - 130
Xylenes, Total	100	100.5		ug/L		100	70 - 130
Styrene	50.0	49.67		ug/L		99	70 - 130
Bromoform	50.0	53.07		ug/L		106	70 - 130
Isopropylbenzene	50.0	51.29		ug/L		103	70 - 130
Bromobenzene	50.0	48.58		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.22		ug/L		104	70 - 130
1,2,3-Trichloropropane	50.0	54.64		ug/L		109	70 - 130
N-Propylbenzene	50.0	48.13		ug/L		96	70 - 130
2-Chlorotoluene	50.0	48.40		ug/L		97	70 - 130
4-Chlorotoluene	50.0	49.52		ug/L		99	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-279479/3
Matrix: Water
Analysis Batch: 279479

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	50.0	50.32		ug/L		101	70 - 130
tert-Butylbenzene	50.0	49.78		ug/L		100	70 - 130
sec-Butylbenzene	50.0	49.82		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	50.99		ug/L		102	70 - 130
p-Isopropyltoluene	50.0	46.93		ug/L		94	70 - 130
1,3-Dichlorobenzene	50.0	50.54		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	51.04		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	52.12		ug/L		104	70 - 130
n-Butylbenzene	50.0	46.18		ug/L		92	70 - 130
Hexachlorobutadiene	50.0	51.96		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	50.0	53.35		ug/L		107	70 - 130
Naphthalene	50.0	54.40		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	50.0	54.72		ug/L		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-279479/4
Matrix: Water
Analysis Batch: 279479

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	49.44		ug/L		99	60 - 140	1	20
Chloromethane	50.0	44.79		ug/L		90	60 - 140	3	20
Vinyl chloride	50.0	46.47		ug/L		93	60 - 140	1	20
Bromomethane	50.0	34.07		ug/L		68	60 - 140	7	20
Chloroethane	50.0	42.85		ug/L		86	60 - 140	4	20
Trichlorofluoromethane	50.0	44.48		ug/L		89	60 - 140	3	20
1,1-Dichloroethene	50.0	45.64		ug/L		91	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	47.16		ug/L		94	70 - 130	2	20
Methylene Chloride	50.0	46.01		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	50.0	41.77		ug/L		84	70 - 130	4	20
Methyl tert-butyl ether	50.0	42.67		ug/L		85	70 - 130	2	20
1,1-Dichloroethane	50.0	42.31		ug/L		85	70 - 130	3	20
cis-1,2-Dichloroethene	50.0	43.36		ug/L		87	70 - 130	2	20
2,2-Dichloropropane	50.0	42.95		ug/L		86	70 - 130	3	20
Bromochloromethane	50.0	59.88		ug/L		120	70 - 130	2	20
Chloroform	50.0	53.75		ug/L		108	70 - 130	2	20
1,1,1-Trichloroethane	50.0	46.91		ug/L		94	70 - 130	2	20
1,1-Dichloropropene	50.0	48.49		ug/L		97	70 - 130	1	20
Carbon tetrachloride	50.0	49.93		ug/L		100	70 - 130	3	20
Benzene	50.0	49.25		ug/L		99	70 - 130	3	20
1,2-Dichloroethane	50.0	45.63		ug/L		91	70 - 130	2	20
Trichloroethene	50.0	50.21		ug/L		100	70 - 130	2	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-279479/4
Matrix: Water
Analysis Batch: 279479

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	50.68		ug/L		101	70 - 130	2	20
Dibromomethane	50.0	50.52		ug/L		101	70 - 130	2	20
Bromodichloromethane	50.0	48.74		ug/L		97	70 - 130	2	20
cis-1,3-Dichloropropene	50.0	51.80		ug/L		104	70 - 130	3	20
Toluene	50.0	47.65		ug/L		95	70 - 130	3	20
trans-1,3-Dichloropropene	50.0	51.90		ug/L		104	70 - 130	3	20
1,1,2-Trichloroethane	50.0	51.97		ug/L		104	70 - 130	1	20
1,3-Dichloropropane	50.0	52.61		ug/L		105	70 - 130	2	20
Tetrachloroethene	50.0	47.35		ug/L		95	70 - 130	1	20
Dibromochloromethane	50.0	53.44		ug/L		107	70 - 130	1	20
Chlorobenzene	50.0	49.27		ug/L		99	70 - 130	3	20
1,1,1,2-Tetrachloroethane	50.0	50.59		ug/L		101	70 - 130	3	20
Ethylbenzene	50.0	49.28		ug/L		99	70 - 130	2	20
m,p-Xylene	50.0	49.18		ug/L		98	70 - 130	3	20
o-Xylene	50.0	49.17		ug/L		98	70 - 130	1	20
Xylenes, Total	100	98.35		ug/L		98	70 - 130	2	20
Styrene	50.0	49.27		ug/L		99	70 - 130	1	20
Bromoform	50.0	51.87		ug/L		104	70 - 130	2	20
Isopropylbenzene	50.0	50.22		ug/L		100	70 - 130	2	20
Bromobenzene	50.0	48.81		ug/L		98	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	53.24		ug/L		106	70 - 130	2	20
1,2,3-Trichloropropane	50.0	55.85		ug/L		112	70 - 130	2	20
N-Propylbenzene	50.0	48.56		ug/L		97	70 - 130	1	20
2-Chlorotoluene	50.0	48.74		ug/L		97	70 - 130	1	20
4-Chlorotoluene	50.0	50.06		ug/L		100	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	49.79		ug/L		100	70 - 130	1	20
tert-Butylbenzene	50.0	50.90		ug/L		102	70 - 130	2	20
sec-Butylbenzene	50.0	50.66		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	50.0	51.36		ug/L		103	70 - 130	1	20
p-Isopropyltoluene	50.0	47.31		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene	50.0	51.30		ug/L		103	70 - 130	1	20
1,4-Dichlorobenzene	50.0	51.38		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene	50.0	53.22		ug/L		106	70 - 130	2	20
n-Butylbenzene	50.0	46.42		ug/L		93	70 - 130	1	20
Hexachlorobutadiene	50.0	50.45		ug/L		101	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	53.02		ug/L		106	70 - 130	1	20
Naphthalene	50.0	52.80		ug/L		106	70 - 130	3	20
1,2,3-Trichlorobenzene	50.0	53.75		ug/L		107	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-280422/7
Matrix: Water
Analysis Batch: 280422

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 13:23	1
Chloromethane	ND		0.500		ug/L			09/10/15 13:23	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 13:23	1
Bromomethane	ND		0.500		ug/L			09/10/15 13:23	1
Chloroethane	ND		0.500		ug/L			09/10/15 13:23	1
Trichlorofluoromethane	ND		0.500		ug/L			09/10/15 13:23	1
1,1-Dichloroethene	ND		0.500		ug/L			09/10/15 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 13:23	1
Methylene Chloride	ND		5.00		ug/L			09/10/15 13:23	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 13:23	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 13:23	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 13:23	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 13:23	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 13:23	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 13:23	1
Chloroform	ND		0.500		ug/L			09/10/15 13:23	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/10/15 13:23	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 13:23	1
Carbon tetrachloride	ND		0.500		ug/L			09/10/15 13:23	1
Benzene	ND		0.500		ug/L			09/10/15 13:23	1
1,2-Dichloroethane	ND		0.500		ug/L			09/10/15 13:23	1
Trichloroethene	ND		0.500		ug/L			09/10/15 13:23	1
1,2-Dichloropropane	ND		0.500		ug/L			09/10/15 13:23	1
Dibromomethane	ND		0.500		ug/L			09/10/15 13:23	1
Bromodichloromethane	ND		0.500		ug/L			09/10/15 13:23	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 13:23	1
Toluene	ND		0.500		ug/L			09/10/15 13:23	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 13:23	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/10/15 13:23	1
1,3-Dichloropropane	ND		0.500		ug/L			09/10/15 13:23	1
Tetrachloroethene	ND		0.500		ug/L			09/10/15 13:23	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 13:23	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/10/15 13:23	1
Chlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 13:23	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 13:23	1
o-Xylene	ND		0.500		ug/L			09/10/15 13:23	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 13:23	1
Styrene	ND		0.500		ug/L			09/10/15 13:23	1
Bromoform	ND		0.500		ug/L			09/10/15 13:23	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 13:23	1
Bromobenzene	ND		0.500		ug/L			09/10/15 13:23	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 13:23	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/10/15 13:23	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 13:23	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 13:23	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-280422/7
Matrix: Water
Analysis Batch: 280422

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 13:23	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 13:23	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 13:23	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1
Naphthalene	ND		5.00		ug/L			09/10/15 13:23	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*09/10/15 13:23*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/10/15 13:23*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/10/15 13:23*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/10/15 13:23*	*1*

Lab Sample ID: LCS 490-280422/3
Matrix: Water
Analysis Batch: 280422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	59.82		ug/L		120	60 - 140
Chloromethane	50.0	46.70		ug/L		93	60 - 140
Vinyl chloride	50.0	49.50		ug/L		99	60 - 140
Bromomethane	50.0	39.33		ug/L		79	60 - 140
Chloroethane	50.0	44.77		ug/L		90	60 - 140
Trichlorofluoromethane	50.0	47.60		ug/L		95	60 - 140
1,1-Dichloroethene	50.0	45.77		ug/L		92	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	49.77		ug/L		100	70 - 130
Methylene Chloride	50.0	47.03		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	45.06		ug/L		90	70 - 130
Methyl tert-butyl ether	50.0	48.27		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	44.36		ug/L		89	70 - 130
cis-1,2-Dichloroethene	50.0	44.86		ug/L		90	70 - 130
2,2-Dichloropropane	50.0	48.44		ug/L		97	70 - 130
Bromochloromethane	50.0	62.83		ug/L		126	70 - 130
Chloroform	50.0	55.56		ug/L		111	70 - 130
1,1,1-Trichloroethane	50.0	47.44		ug/L		95	70 - 130
1,1-Dichloropropene	50.0	47.77		ug/L		96	70 - 130
Carbon tetrachloride	50.0	50.80		ug/L		102	70 - 130
Benzene	50.0	50.69		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	47.43		ug/L		95	70 - 130
Trichloroethene	50.0	49.73		ug/L		99	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-280422/3
Matrix: Water
Analysis Batch: 280422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	51.05		ug/L		102	70 - 130
Dibromomethane	50.0	51.68		ug/L		103	70 - 130
Bromodichloromethane	50.0	49.90		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	52.24		ug/L		104	70 - 130
Toluene	50.0	47.27		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	52.92		ug/L		106	70 - 130
1,1,2-Trichloroethane	50.0	51.82		ug/L		104	70 - 130
1,3-Dichloropropane	50.0	52.64		ug/L		105	70 - 130
Tetrachloroethene	50.0	48.52		ug/L		97	70 - 130
Dibromochloromethane	50.0	53.51		ug/L		107	70 - 130
Chlorobenzene	50.0	48.97		ug/L		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.33		ug/L		103	70 - 130
Ethylbenzene	50.0	49.00		ug/L		98	70 - 130
m,p-Xylene	50.0	49.23		ug/L		98	70 - 130
o-Xylene	50.0	48.23		ug/L		96	70 - 130
Xylenes, Total	100	97.46		ug/L		97	70 - 130
Styrene	50.0	48.45		ug/L		97	70 - 130
Bromoform	50.0	53.96		ug/L		108	70 - 130
Isopropylbenzene	50.0	49.86		ug/L		100	70 - 130
Bromobenzene	50.0	46.54		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.48		ug/L		107	70 - 130
1,2,3-Trichloropropane	50.0	54.11		ug/L		108	70 - 130
N-Propylbenzene	50.0	47.78		ug/L		96	70 - 130
2-Chlorotoluene	50.0	46.80		ug/L		94	70 - 130
4-Chlorotoluene	50.0	47.88		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	50.0	49.24		ug/L		98	70 - 130
tert-Butylbenzene	50.0	48.35		ug/L		97	70 - 130
sec-Butylbenzene	50.0	49.42		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	50.0	49.63		ug/L		99	70 - 130
p-Isopropyltoluene	50.0	46.11		ug/L		92	70 - 130
1,3-Dichlorobenzene	50.0	49.60		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	49.41		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	50.62		ug/L		101	70 - 130
n-Butylbenzene	50.0	45.53		ug/L		91	70 - 130
Hexachlorobutadiene	50.0	48.32		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	50.0	49.89		ug/L		100	70 - 130
Naphthalene	50.0	48.38		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	50.0	50.09		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-280422/4
Matrix: Water
Analysis Batch: 280422

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	54.82		ug/L		110	60 - 140	9	20
Chloromethane	50.0	41.96		ug/L		84	60 - 140	11	20
Vinyl chloride	50.0	45.04		ug/L		90	60 - 140	9	20
Bromomethane	50.0	34.27		ug/L		69	60 - 140	14	20
Chloroethane	50.0	40.95		ug/L		82	60 - 140	9	20
Trichlorofluoromethane	50.0	43.14		ug/L		86	60 - 140	10	20
1,1-Dichloroethene	50.0	42.18		ug/L		84	70 - 130	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.17		ug/L		90	70 - 130	10	20
Methylene Chloride	50.0	44.26		ug/L		89	70 - 130	6	20
trans-1,2-Dichloroethene	50.0	39.50		ug/L		79	70 - 130	13	20
Methyl tert-butyl ether	50.0	44.59		ug/L		89	70 - 130	8	20
1,1-Dichloroethane	50.0	41.14		ug/L		82	70 - 130	8	20
cis-1,2-Dichloroethene	50.0	41.90		ug/L		84	70 - 130	7	20
2,2-Dichloropropane	50.0	44.82		ug/L		90	70 - 130	8	20
Bromochloromethane	50.0	59.30		ug/L		119	70 - 130	6	20
Chloroform	50.0	53.00		ug/L		106	70 - 130	5	20
1,1,1-Trichloroethane	50.0	44.82		ug/L		90	70 - 130	6	20
1,1-Dichloropropene	50.0	45.04		ug/L		90	70 - 130	6	20
Carbon tetrachloride	50.0	46.99		ug/L		94	70 - 130	8	20
Benzene	50.0	47.35		ug/L		95	70 - 130	7	20
1,2-Dichloroethane	50.0	45.26		ug/L		91	70 - 130	5	20
Trichloroethene	50.0	47.11		ug/L		94	70 - 130	5	20
1,2-Dichloropropane	50.0	49.55		ug/L		99	70 - 130	3	20
Dibromomethane	50.0	50.78		ug/L		102	70 - 130	2	20
Bromodichloromethane	50.0	47.66		ug/L		95	70 - 130	5	20
cis-1,3-Dichloropropene	50.0	50.51		ug/L		101	70 - 130	3	20
Toluene	50.0	44.47		ug/L		89	70 - 130	6	20
trans-1,3-Dichloropropene	50.0	51.57		ug/L		103	70 - 130	3	20
1,1,2-Trichloroethane	50.0	50.69		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	50.0	51.19		ug/L		102	70 - 130	3	20
Tetrachloroethene	50.0	43.88		ug/L		88	70 - 130	10	20
Dibromochloromethane	50.0	52.01		ug/L		104	70 - 130	3	20
Chlorobenzene	50.0	46.32		ug/L		93	70 - 130	6	20
1,1,1,2-Tetrachloroethane	50.0	48.93		ug/L		98	70 - 130	5	20
Ethylbenzene	50.0	46.07		ug/L		92	70 - 130	6	20
m,p-Xylene	50.0	46.28		ug/L		93	70 - 130	6	20
o-Xylene	50.0	45.57		ug/L		91	70 - 130	6	20
Xylenes, Total	100	91.85		ug/L		92	70 - 130	6	20
Styrene	50.0	46.39		ug/L		93	70 - 130	4	20
Bromoform	50.0	51.76		ug/L		104	70 - 130	4	20
Isopropylbenzene	50.0	46.85		ug/L		94	70 - 130	6	20
Bromobenzene	50.0	45.51		ug/L		91	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	52.82		ug/L		106	70 - 130	1	20
1,2,3-Trichloropropane	50.0	53.81		ug/L		108	70 - 130	1	20
N-Propylbenzene	50.0	45.23		ug/L		90	70 - 130	5	20
2-Chlorotoluene	50.0	44.65		ug/L		89	70 - 130	5	20
4-Chlorotoluene	50.0	46.16		ug/L		92	70 - 130	4	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-280422/4
Matrix: Water
Analysis Batch: 280422

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	50.0	47.19		ug/L		94	70 - 130	4	20
tert-Butylbenzene	50.0	45.94		ug/L		92	70 - 130	5	20
sec-Butylbenzene	50.0	47.16		ug/L		94	70 - 130	5	20
1,2,4-Trimethylbenzene	50.0	47.61		ug/L		95	70 - 130	4	20
p-Isopropyltoluene	50.0	44.45		ug/L		89	70 - 130	4	20
1,3-Dichlorobenzene	50.0	47.69		ug/L		95	70 - 130	4	20
1,4-Dichlorobenzene	50.0	47.40		ug/L		95	70 - 130	4	20
1,2-Dichlorobenzene	50.0	49.08		ug/L		98	70 - 130	3	20
n-Butylbenzene	50.0	43.52		ug/L		87	70 - 130	5	20
Hexachlorobutadiene	50.0	47.20		ug/L		94	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	50.20		ug/L		100	70 - 130	1	20
Naphthalene	50.0	50.78		ug/L		102	70 - 130	5	20
1,2,3-Trichlorobenzene	50.0	51.20		ug/L		102	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 490-280715/7
Matrix: Water
Analysis Batch: 280715

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.500		ug/L			09/10/15 18:44	1
Chloromethane	ND		0.500		ug/L			09/10/15 18:44	1
Vinyl chloride	ND		0.500		ug/L			09/10/15 18:44	1
Bromomethane	ND		0.500		ug/L			09/10/15 18:44	1
Chloroethane	ND		0.500		ug/L			09/10/15 18:44	1
Trichlorofluoromethane	ND		0.500		ug/L			09/10/15 18:44	1
1,1-Dichloroethene	ND		0.500		ug/L			09/10/15 18:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.500		ug/L			09/10/15 18:44	1
Methylene Chloride	ND		5.00		ug/L			09/10/15 18:44	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 18:44	1
Methyl tert-butyl ether	ND		0.500		ug/L			09/10/15 18:44	1
1,1-Dichloroethane	ND		0.500		ug/L			09/10/15 18:44	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			09/10/15 18:44	1
2,2-Dichloropropane	ND		0.500		ug/L			09/10/15 18:44	1
Bromochloromethane	ND		0.500		ug/L			09/10/15 18:44	1
Chloroform	ND		0.500		ug/L			09/10/15 18:44	1
1,1,1-Trichloroethane	ND		0.500		ug/L			09/10/15 18:44	1
1,1-Dichloropropene	ND		0.500		ug/L			09/10/15 18:44	1
Carbon tetrachloride	ND		0.500		ug/L			09/10/15 18:44	1
Benzene	ND		0.500		ug/L			09/10/15 18:44	1
1,2-Dichloroethane	ND		0.500		ug/L			09/10/15 18:44	1
Trichloroethene	ND		0.500		ug/L			09/10/15 18:44	1
1,2-Dichloropropane	ND		0.500		ug/L			09/10/15 18:44	1

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: MB 490-280715/7
Matrix: Water
Analysis Batch: 280715

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.500		ug/L			09/10/15 18:44	1
Bromodichloromethane	ND		0.500		ug/L			09/10/15 18:44	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 18:44	1
Toluene	ND		0.500		ug/L			09/10/15 18:44	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			09/10/15 18:44	1
1,1,2-Trichloroethane	ND		0.500		ug/L			09/10/15 18:44	1
1,3-Dichloropropane	ND		0.500		ug/L			09/10/15 18:44	1
Tetrachloroethene	0.5286		0.500		ug/L			09/10/15 18:44	1
Dibromochloromethane	ND		0.500		ug/L			09/10/15 18:44	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			09/10/15 18:44	1
Chlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 18:44	1
Ethylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
m,p-Xylene	ND		0.500		ug/L			09/10/15 18:44	1
o-Xylene	ND		0.500		ug/L			09/10/15 18:44	1
Xylenes, Total	ND		1.00		ug/L			09/10/15 18:44	1
Styrene	ND		0.500		ug/L			09/10/15 18:44	1
Bromoform	ND		0.500		ug/L			09/10/15 18:44	1
Isopropylbenzene	ND		1.00		ug/L			09/10/15 18:44	1
Bromobenzene	ND		0.500		ug/L			09/10/15 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			09/10/15 18:44	1
1,2,3-Trichloropropane	ND		0.500		ug/L			09/10/15 18:44	1
N-Propylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
2-Chlorotoluene	ND		0.500		ug/L			09/10/15 18:44	1
4-Chlorotoluene	ND		0.500		ug/L			09/10/15 18:44	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
tert-Butylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
sec-Butylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
p-Isopropyltoluene	ND		0.500		ug/L			09/10/15 18:44	1
1,3-Dichlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1
1,4-Dichlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1
1,2-Dichlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1
n-Butylbenzene	ND		0.500		ug/L			09/10/15 18:44	1
Hexachlorobutadiene	ND		1.00		ug/L			09/10/15 18:44	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1
Naphthalene	ND		5.00		ug/L			09/10/15 18:44	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			09/10/15 18:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/15 18:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*09/10/15 18:44*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*09/10/15 18:44*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*09/10/15 18:44*	*1*

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-280715/3
Matrix: Water
Analysis Batch: 280715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	46.94		ug/L		94	60 - 140
Chloromethane	50.0	45.41		ug/L		91	60 - 140
Vinyl chloride	50.0	48.78		ug/L		98	60 - 140
Bromomethane	50.0	48.93		ug/L		98	60 - 140
Chloroethane	50.0	47.96		ug/L		96	60 - 140
Trichlorofluoromethane	50.0	52.50		ug/L		105	60 - 140
1,1-Dichloroethene	50.0	53.87		ug/L		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	54.75		ug/L		110	70 - 130
Methylene Chloride	50.0	51.78		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	51.60		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	50.13		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	51.04		ug/L		102	70 - 130
cis-1,2-Dichloroethene	50.0	51.41		ug/L		103	70 - 130
2,2-Dichloropropane	50.0	49.00		ug/L		98	70 - 130
Bromochloromethane	50.0	58.01		ug/L		116	70 - 130
Chloroform	50.0	52.63		ug/L		105	70 - 130
1,1,1-Trichloroethane	50.0	52.92		ug/L		106	70 - 130
1,1-Dichloropropene	50.0	54.08		ug/L		108	70 - 130
Carbon tetrachloride	50.0	55.55		ug/L		111	70 - 130
Benzene	50.0	51.99		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	52.56		ug/L		105	70 - 130
Trichloroethene	50.0	58.59		ug/L		117	70 - 130
1,2-Dichloropropane	50.0	50.67		ug/L		101	70 - 130
Dibromomethane	50.0	54.53		ug/L		109	70 - 130
Bromodichloromethane	50.0	52.93		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	55.60		ug/L		111	70 - 130
Toluene	50.0	55.27		ug/L		111	70 - 130
trans-1,3-Dichloropropene	50.0	54.72		ug/L		109	70 - 130
1,1,2-Trichloroethane	50.0	56.24		ug/L		112	70 - 130
1,3-Dichloropropane	50.0	52.27		ug/L		105	70 - 130
Tetrachloroethene	50.0	59.67		ug/L		119	70 - 130
Dibromochloromethane	50.0	58.69		ug/L		117	70 - 130
Chlorobenzene	50.0	54.27		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.97		ug/L		114	70 - 130
Ethylbenzene	50.0	52.96		ug/L		106	70 - 130
m,p-Xylene	50.0	51.42		ug/L		103	70 - 130
o-Xylene	50.0	52.50		ug/L		105	70 - 130
Xylenes, Total	100	103.9		ug/L		104	70 - 130
Styrene	50.0	55.64		ug/L		111	70 - 130
Bromoform	50.0	53.40	E	ug/L		107	70 - 130
Isopropylbenzene	50.0	54.40		ug/L		109	70 - 130
Bromobenzene	50.0	47.34		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.17		ug/L		100	70 - 130
1,2,3-Trichloropropane	50.0	50.66		ug/L		101	70 - 130
N-Propylbenzene	50.0	52.08		ug/L		104	70 - 130
2-Chlorotoluene	50.0	48.08		ug/L		96	70 - 130
4-Chlorotoluene	50.0	51.79		ug/L		104	70 - 130

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCS 490-280715/3
Matrix: Water
Analysis Batch: 280715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	50.0	53.32		ug/L		107	70 - 130
tert-Butylbenzene	50.0	52.57		ug/L		105	70 - 130
sec-Butylbenzene	50.0	51.33		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	50.0	52.42		ug/L		105	70 - 130
p-Isopropyltoluene	50.0	53.04		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	55.06		ug/L		110	70 - 130
1,4-Dichlorobenzene	50.0	52.89		ug/L		106	70 - 130
1,2-Dichlorobenzene	50.0	56.81		ug/L		114	70 - 130
n-Butylbenzene	50.0	53.66		ug/L		107	70 - 130
Hexachlorobutadiene	50.0	57.10		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	50.0	60.50		ug/L		121	70 - 130
Naphthalene	50.0	50.14		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	50.0	55.06		ug/L		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 490-280715/4
Matrix: Water
Analysis Batch: 280715

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	50.0	45.53		ug/L		91	60 - 140	3	20
Chloromethane	50.0	44.93		ug/L		90	60 - 140	1	20
Vinyl chloride	50.0	47.61		ug/L		95	60 - 140	2	20
Bromomethane	50.0	48.31		ug/L		97	60 - 140	1	20
Chloroethane	50.0	47.16		ug/L		94	60 - 140	2	20
Trichlorofluoromethane	50.0	50.82		ug/L		102	60 - 140	3	20
1,1-Dichloroethene	50.0	52.30		ug/L		105	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	53.11		ug/L		106	70 - 130	3	20
Methylene Chloride	50.0	50.93		ug/L		102	70 - 130	2	20
trans-1,2-Dichloroethene	50.0	50.74		ug/L		101	70 - 130	2	20
Methyl tert-butyl ether	50.0	49.22		ug/L		98	70 - 130	2	20
1,1-Dichloroethane	50.0	49.50		ug/L		99	70 - 130	3	20
cis-1,2-Dichloroethene	50.0	49.96		ug/L		100	70 - 130	3	20
2,2-Dichloropropane	50.0	47.23		ug/L		94	70 - 130	4	20
Bromochloromethane	50.0	56.40		ug/L		113	70 - 130	3	20
Chloroform	50.0	51.95		ug/L		104	70 - 130	1	20
1,1,1-Trichloroethane	50.0	52.14		ug/L		104	70 - 130	1	20
1,1-Dichloropropene	50.0	52.52		ug/L		105	70 - 130	3	20
Carbon tetrachloride	50.0	54.62		ug/L		109	70 - 130	2	20
Benzene	50.0	51.08		ug/L		102	70 - 130	2	20
1,2-Dichloroethane	50.0	51.10		ug/L		102	70 - 130	3	20
Trichloroethene	50.0	57.30		ug/L		115	70 - 130	2	20

Method: SM6200-B - Volatile Organic Compounds (Continued)

Lab Sample ID: LCSD 490-280715/4
Matrix: Water
Analysis Batch: 280715

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			50.0	50.28		ug/L		101	70 - 130	1	20
Dibromomethane			50.0	53.85		ug/L		108	70 - 130	1	20
Bromodichloromethane			50.0	51.43		ug/L		103	70 - 130	3	20
cis-1,3-Dichloropropene			50.0	54.35		ug/L		109	70 - 130	2	20
Toluene			50.0	53.57		ug/L		107	70 - 130	3	20
trans-1,3-Dichloropropene			50.0	53.78		ug/L		108	70 - 130	2	20
1,1,2-Trichloroethane			50.0	55.39		ug/L		111	70 - 130	2	20
1,3-Dichloropropane			50.0	51.66		ug/L		103	70 - 130	1	20
Tetrachloroethene			50.0	58.02		ug/L		116	70 - 130	3	20
Dibromochloromethane			50.0	57.33		ug/L		115	70 - 130	2	20
Chlorobenzene			50.0	52.81		ug/L		106	70 - 130	3	20
1,1,1,2-Tetrachloroethane			50.0	54.86		ug/L		110	70 - 130	4	20
Ethylbenzene			50.0	51.60		ug/L		103	70 - 130	3	20
m,p-Xylene			50.0	50.37		ug/L		101	70 - 130	2	20
o-Xylene			50.0	51.38		ug/L		103	70 - 130	2	20
Xylenes, Total			100	101.8		ug/L		102	70 - 130	2	20
Styrene			50.0	54.41		ug/L		109	70 - 130	2	20
Bromoform			50.0	52.58	E	ug/L		105	70 - 130	2	20
Isopropylbenzene			50.0	53.08		ug/L		106	70 - 130	2	20
Bromobenzene			50.0	47.41		ug/L		95	70 - 130	0	20
1,1,2,2-Tetrachloroethane			50.0	49.47		ug/L		99	70 - 130	1	20
1,2,3-Trichloropropane			50.0	49.23		ug/L		98	70 - 130	3	20
N-Propylbenzene			50.0	51.34		ug/L		103	70 - 130	1	20
2-Chlorotoluene			50.0	47.30		ug/L		95	70 - 130	2	20
4-Chlorotoluene			50.0	50.93		ug/L		102	70 - 130	2	20
1,3,5-Trimethylbenzene			50.0	51.73		ug/L		103	70 - 130	3	20
tert-Butylbenzene			50.0	51.78		ug/L		104	70 - 130	2	20
sec-Butylbenzene			50.0	50.00		ug/L		100	70 - 130	3	20
1,2,4-Trimethylbenzene			50.0	51.28		ug/L		103	70 - 130	2	20
p-Isopropyltoluene			50.0	51.76		ug/L		104	70 - 130	2	20
1,3-Dichlorobenzene			50.0	53.44		ug/L		107	70 - 130	3	20
1,4-Dichlorobenzene			50.0	51.42		ug/L		103	70 - 130	3	20
1,2-Dichlorobenzene			50.0	54.91		ug/L		110	70 - 130	3	20
n-Butylbenzene			50.0	52.18		ug/L		104	70 - 130	3	20
Hexachlorobutadiene			50.0	55.67		ug/L		111	70 - 130	3	20
1,2,4-Trichlorobenzene			50.0	58.47		ug/L		117	70 - 130	3	20
Naphthalene			50.0	49.06		ug/L		98	70 - 130	2	20
1,2,3-Trichlorobenzene			50.0	53.56		ug/L		107	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

QC Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 490-278181/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278555 — **Prep Batch: 278181**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10.0		ug/L		09/01/15 13:48	09/02/15 10:19	1
Barium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 10:19	1
Cadmium	ND		1.00		ug/L		09/01/15 13:48	09/02/15 10:19	1
Chromium	ND		5.00		ug/L		09/01/15 13:48	09/02/15 10:19	1
Manganese	ND		15.0		ug/L		09/01/15 13:48	09/02/15 10:19	1
Lead	ND		5.00		ug/L		09/01/15 13:48	09/02/15 10:19	1
Selenium	ND		10.0		ug/L		09/01/15 13:48	09/02/15 10:19	1

Lab Sample ID: LCS 490-278181/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278555 — **Prep Batch: 278181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.60		ug/L		97	80 - 120
Barium	2000	2066		ug/L		103	80 - 120
Cadmium	50.0	50.30		ug/L		101	80 - 120
Chromium	200	205.7		ug/L		103	80 - 120
Manganese	500	497.9		ug/L		100	80 - 120
Lead	50.0	54.40		ug/L		109	80 - 120
Selenium	50.0	49.70		ug/L		99	80 - 120

Lab Sample ID: 490-86296-1 MS — **Client Sample ID: MW-36S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278555 — **Prep Batch: 278181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		50.0	48.20		ug/L		96	75 - 125
Barium	110		2000	2156		ug/L		102	75 - 125
Cadmium	ND		50.0	49.80		ug/L		98	75 - 125
Chromium	ND		200	204.6		ug/L		102	75 - 125
Manganese	3220		500	3501	4	ug/L		56	75 - 125
Lead	ND		50.0	53.80		ug/L		108	75 - 125
Selenium	ND		50.0	54.00		ug/L		108	75 - 125

Lab Sample ID: 490-86296-1 MSD — **Client Sample ID: MW-36S**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278555 — **Prep Batch: 278181**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		50.0	43.70		ug/L		87	75 - 125	10	20
Barium	110		2000	2150		ug/L		102	75 - 125	0	20
Cadmium	ND		50.0	49.70		ug/L		98	75 - 125	0	20
Chromium	ND		200	203.9		ug/L		102	75 - 125	0	20
Manganese	3220		500	3487	4	ug/L		53	75 - 125	0	20
Lead	ND		50.0	53.80		ug/L		108	75 - 125	0	20
Selenium	ND		50.0	49.50		ug/L		99	75 - 125	9	20

QC Sample Results

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 490-278249/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278590 — **Prep Batch: 278249**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/01/15 16:19	09/02/15 13:26	1

Lab Sample ID: LCS 490-278249/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278590 — **Prep Batch: 278249**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	0.9522		ug/L		95	80 - 120

Lab Sample ID: 490-86192-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278590 — **Prep Batch: 278249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	0.8671		ug/L		87	75 - 125

Lab Sample ID: 490-86192-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278590 — **Prep Batch: 278249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	0.8671		ug/L		87	75 - 125	0	20

Lab Sample ID: MB 490-278583/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278742 — **Prep Batch: 278583**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/L		09/02/15 14:47	09/02/15 22:57	1

Lab Sample ID: LCS 490-278583/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278742 — **Prep Batch: 278583**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.00	1.028		ug/L		103	80 - 120

Lab Sample ID: 490-86296-9 MS — **Client Sample ID: MW-12I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278742 — **Prep Batch: 278583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		1.00	1.107		ug/L		111	75 - 125

Lab Sample ID: 490-86296-9 MSD — **Client Sample ID: MW-12I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 278742 — **Prep Batch: 278583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		1.00	1.100		ug/L		110	75 - 125	1	20

QC Association Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

GC/MS VOA

Analysis Batch: 279328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86257-B-29 MS	Matrix Spike	Total/NA	Water	SM6200-B	
490-86257-C-29 MSD	Matrix Spike Duplicate	Total/NA	Water	SM6200-B	
490-86296-1	MW-36S	Total/NA	Water	SM6200-B	
490-86296-2	MW-16I	Total/NA	Water	SM6200-B	
490-86296-3	MW-13D	Total/NA	Water	SM6200-B	
490-86296-4	MW-16S	Total/NA	Water	SM6200-B	
490-86296-5	MW-17D	Total/NA	Water	SM6200-B	
490-86296-6	MW-17I	Total/NA	Water	SM6200-B	
490-86296-9	MW-12I	Total/NA	Water	SM6200-B	
490-86296-10	MW-61	Total/NA	Water	SM6200-B	
490-86296-19	Trip Blank	Total/NA	Water	SM6200-B	
LCS 490-279328/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-279328/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-279328/7	Method Blank	Total/NA	Water	SM6200-B	

Analysis Batch: 279479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-1	MW-36S	Total/NA	Water	SM6200-B	
490-86296-4	MW-16S	Total/NA	Water	SM6200-B	
490-86296-5	MW-17D	Total/NA	Water	SM6200-B	
490-86296-5	MW-17D	Total/NA	Water	SM6200-B	
490-86296-6	MW-17I	Total/NA	Water	SM6200-B	
490-86296-6	MW-17I	Total/NA	Water	SM6200-B	
490-86296-7	MW-27	Total/NA	Water	SM6200-B	
490-86296-8	MW-17S	Total/NA	Water	SM6200-B	
490-86296-9	MW-12I	Total/NA	Water	SM6200-B	
490-86296-9	MW-12I	Total/NA	Water	SM6200-B	
490-86296-10	MW-61	Total/NA	Water	SM6200-B	
490-86296-10	MW-61	Total/NA	Water	SM6200-B	
LCS 490-279479/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-279479/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-279479/7	Method Blank	Total/NA	Water	SM6200-B	

Analysis Batch: 280422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-11	MW-3	Total/NA	Water	SM6200-B	
490-86296-11	MW-3	Total/NA	Water	SM6200-B	
490-86296-11	MW-3	Total/NA	Water	SM6200-B	
490-86296-12	MW-8	Total/NA	Water	SM6200-B	
490-86296-12	MW-8	Total/NA	Water	SM6200-B	
490-86296-12	MW-8	Total/NA	Water	SM6200-B	
490-86296-13	MW-37	Total/NA	Water	SM6200-B	
490-86296-13	MW-37	Total/NA	Water	SM6200-B	
490-86296-13	MW-37	Total/NA	Water	SM6200-B	
490-86296-13	MW-37	Total/NA	Water	SM6200-B	
490-86296-14	RW-10	Total/NA	Water	SM6200-B	
490-86296-14	RW-10	Total/NA	Water	SM6200-B	
490-86296-14	RW-10	Total/NA	Water	SM6200-B	
490-86296-15	MW-12S	Total/NA	Water	SM6200-B	
490-86296-16	RW-1	Total/NA	Water	SM6200-B	
490-86296-17	MW-64	Total/NA	Water	SM6200-B	

GC/MS VOA (Continued)

Analysis Batch: 280422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-18	RW-6	Total/NA	Water	SM6200-B	
LCS 490-280422/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-280422/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-280422/7	Method Blank	Total/NA	Water	SM6200-B	

Analysis Batch: 280715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-15	MW-12S	Total/NA	Water	SM6200-B	
490-86296-15	MW-12S	Total/NA	Water	SM6200-B	
490-86296-16	RW-1	Total/NA	Water	SM6200-B	
490-86296-16	RW-1	Total/NA	Water	SM6200-B	
490-86296-17	MW-64	Total/NA	Water	SM6200-B	
490-86296-18	RW-6	Total/NA	Water	SM6200-B	
LCS 490-280715/3	Lab Control Sample	Total/NA	Water	SM6200-B	
LCSD 490-280715/4	Lab Control Sample Dup	Total/NA	Water	SM6200-B	
MB 490-280715/7	Method Blank	Total/NA	Water	SM6200-B	

Metals

Prep Batch: 278181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-1	MW-36S	Total/NA	Water	3010A	
490-86296-1 MS	MW-36S	Total/NA	Water	3010A	
490-86296-1 MSD	MW-36S	Total/NA	Water	3010A	
490-86296-2	MW-16I	Total/NA	Water	3010A	
490-86296-3	MW-13D	Total/NA	Water	3010A	
490-86296-4	MW-16S	Total/NA	Water	3010A	
490-86296-5	MW-17D	Total/NA	Water	3010A	
490-86296-6	MW-17I	Total/NA	Water	3010A	
490-86296-7	MW-27	Total/NA	Water	3010A	
490-86296-8	MW-17S	Total/NA	Water	3010A	
490-86296-9	MW-12I	Total/NA	Water	3010A	
490-86296-10	MW-61	Total/NA	Water	3010A	
490-86296-11	MW-3	Total/NA	Water	3010A	
490-86296-12	MW-8	Total/NA	Water	3010A	
490-86296-13	MW-37	Total/NA	Water	3010A	
490-86296-14	RW-10	Total/NA	Water	3010A	
490-86296-15	MW-12S	Total/NA	Water	3010A	
490-86296-16	RW-1	Total/NA	Water	3010A	
490-86296-17	MW-64	Total/NA	Water	3010A	
490-86296-18	RW-6	Total/NA	Water	3010A	
LCS 490-278181/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-278181/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 278249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86192-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
490-86192-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
490-86296-1	MW-36S	Total/NA	Water	7470A	
490-86296-2	MW-16I	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 278249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-3	MW-13D	Total/NA	Water	7470A	
490-86296-4	MW-16S	Total/NA	Water	7470A	
490-86296-5	MW-17D	Total/NA	Water	7470A	
490-86296-6	MW-17I	Total/NA	Water	7470A	
490-86296-7	MW-27	Total/NA	Water	7470A	
490-86296-8	MW-17S	Total/NA	Water	7470A	
LCS 490-278249/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-278249/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 278555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-1	MW-36S	Total/NA	Water	6010C	278181
490-86296-1 MS	MW-36S	Total/NA	Water	6010C	278181
490-86296-1 MSD	MW-36S	Total/NA	Water	6010C	278181
490-86296-2	MW-16I	Total/NA	Water	6010C	278181
490-86296-3	MW-13D	Total/NA	Water	6010C	278181
490-86296-4	MW-16S	Total/NA	Water	6010C	278181
490-86296-5	MW-17D	Total/NA	Water	6010C	278181
490-86296-6	MW-17I	Total/NA	Water	6010C	278181
490-86296-7	MW-27	Total/NA	Water	6010C	278181
490-86296-8	MW-17S	Total/NA	Water	6010C	278181
490-86296-9	MW-12I	Total/NA	Water	6010C	278181
490-86296-10	MW-61	Total/NA	Water	6010C	278181
490-86296-11	MW-3	Total/NA	Water	6010C	278181
490-86296-12	MW-8	Total/NA	Water	6010C	278181
490-86296-13	MW-37	Total/NA	Water	6010C	278181
490-86296-14	RW-10	Total/NA	Water	6010C	278181
490-86296-15	MW-12S	Total/NA	Water	6010C	278181
490-86296-16	RW-1	Total/NA	Water	6010C	278181
490-86296-17	MW-64	Total/NA	Water	6010C	278181
490-86296-18	RW-6	Total/NA	Water	6010C	278181
LCS 490-278181/2-A	Lab Control Sample	Total/NA	Water	6010C	278181
MB 490-278181/1-A	Method Blank	Total/NA	Water	6010C	278181

Prep Batch: 278583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-9	MW-12I	Total/NA	Water	7470A	
490-86296-9 MS	MW-12I	Total/NA	Water	7470A	
490-86296-9 MSD	MW-12I	Total/NA	Water	7470A	
490-86296-10	MW-61	Total/NA	Water	7470A	
490-86296-11	MW-3	Total/NA	Water	7470A	
490-86296-12	MW-8	Total/NA	Water	7470A	
490-86296-13	MW-37	Total/NA	Water	7470A	
490-86296-14	RW-10	Total/NA	Water	7470A	
490-86296-15	MW-12S	Total/NA	Water	7470A	
490-86296-16	RW-1	Total/NA	Water	7470A	
490-86296-17	MW-64	Total/NA	Water	7470A	
490-86296-18	RW-6	Total/NA	Water	7470A	
LCS 490-278583/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 490-278583/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 278590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86192-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	278249
490-86192-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	278249
490-86296-1	MW-36S	Total/NA	Water	7470A	278249
490-86296-2	MW-16I	Total/NA	Water	7470A	278249
490-86296-3	MW-13D	Total/NA	Water	7470A	278249
490-86296-4	MW-16S	Total/NA	Water	7470A	278249
490-86296-5	MW-17D	Total/NA	Water	7470A	278249
490-86296-6	MW-17I	Total/NA	Water	7470A	278249
490-86296-7	MW-27	Total/NA	Water	7470A	278249
490-86296-8	MW-17S	Total/NA	Water	7470A	278249
LCS 490-278249/2-A	Lab Control Sample	Total/NA	Water	7470A	278249
MB 490-278249/1-A	Method Blank	Total/NA	Water	7470A	278249

Analysis Batch: 278742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-9	MW-12I	Total/NA	Water	7470A	278583
490-86296-9 MS	MW-12I	Total/NA	Water	7470A	278583
490-86296-9 MSD	MW-12I	Total/NA	Water	7470A	278583
490-86296-10	MW-61	Total/NA	Water	7470A	278583
490-86296-11	MW-3	Total/NA	Water	7470A	278583
490-86296-12	MW-8	Total/NA	Water	7470A	278583
490-86296-13	MW-37	Total/NA	Water	7470A	278583
490-86296-14	RW-10	Total/NA	Water	7470A	278583
490-86296-15	MW-12S	Total/NA	Water	7470A	278583
490-86296-16	RW-1	Total/NA	Water	7470A	278583
490-86296-17	MW-64	Total/NA	Water	7470A	278583
490-86296-18	RW-6	Total/NA	Water	7470A	278583
LCS 490-278583/2-A	Lab Control Sample	Total/NA	Water	7470A	278583
MB 490-278583/1-A	Method Blank	Total/NA	Water	7470A	278583

Analysis Batch: 281489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-86296-13	MW-37	Total/NA	Water	6010C	278181
490-86296-15	MW-12S	Total/NA	Water	6010C	278181

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-36S — Lab Sample ID: 490-86296-1

Date Collected: 08/25/15 09:00
Date Received: 08/29/15 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 09:25	PS	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	279479	09/05/15 22:07	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 10:32	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:02	BLG	TAL NSH

Client Sample ID: MW-16I — Lab Sample ID: 490-86296-2

Date Collected: 08/25/15 10:55
Date Received: 08/29/15 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 09:53	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:08	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:05	BLG	TAL NSH

Client Sample ID: MW-13D — Lab Sample ID: 490-86296-3

Date Collected: 08/25/15 12:30
Date Received: 08/29/15 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 10:21	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:12	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:12	BLG	TAL NSH

Client Sample ID: MW-16S — Lab Sample ID: 490-86296-4

Date Collected: 08/25/15 13:25
Date Received: 08/29/15 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 10:50	PS	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	279479	09/05/15 22:35	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:16	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:14	BLG	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-17D — Lab Sample ID: 490-86296-5

Date Collected: 08/25/15 14:55 — **Matrix: Water**
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 11:17	PS	TAL NSH
Total/NA	Analysis	SM6200-B		5	10 mL	10 mL	279479	09/05/15 23:04	PS	TAL NSH
Total/NA	Analysis	SM6200-B		50	10 mL	10 mL	279479	09/05/15 23:31	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:21	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:17	BLG	TAL NSH

Client Sample ID: MW-17I — Lab Sample ID: 490-86296-6

Date Collected: 08/25/15 15:37 — **Matrix: Water**
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 11:45	PS	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	279479	09/05/15 23:59	PS	TAL NSH
Total/NA	Analysis	SM6200-B		100	10 mL	10 mL	279479	09/06/15 00:27	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:25	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:19	BLG	TAL NSH

Client Sample ID: MW-27 — Lab Sample ID: 490-86296-7

Date Collected: 08/26/15 08:45 — **Matrix: Water**
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279479	09/05/15 18:52	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:30	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:21	BLG	TAL NSH

Client Sample ID: MW-17S — Lab Sample ID: 490-86296-8

Date Collected: 08/26/15 10:30 — **Matrix: Water**
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279479	09/05/15 19:20	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:34	NJB	TAL NSH
Total/NA	Prep	7470A			30 mL	30 mL	278249	09/01/15 16:19	RDF	TAL NSH
Total/NA	Analysis	7470A		1	30 mL	30 mL	278590	09/02/15 14:24	BLG	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12I
Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 13:09	PS	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	279479	09/06/15 00:55	PS	TAL NSH
Total/NA	Analysis	SM6200-B		100	10 mL	10 mL	279479	09/06/15 01:23	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:38	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:01	BLG	TAL NSH

Client Sample ID: MW-61
Date Collected: 08/26/15 14:00
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 13:37	PS	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	279479	09/06/15 01:51	PS	TAL NSH
Total/NA	Analysis	SM6200-B		100	10 mL	10 mL	279479	09/06/15 02:19	PS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:47	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:09	BLG	TAL NSH

Client Sample ID: MW-3
Date Collected: 08/27/15 08:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 15:45	EML	TAL NSH
Total/NA	Analysis	SM6200-B		20	10 mL	10 mL	280422	09/10/15 18:32	EML	TAL NSH
Total/NA	Analysis	SM6200-B		200	10 mL	10 mL	280422	09/10/15 19:00	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 11:43	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:11	BLG	TAL NSH

Client Sample ID: MW-8
Date Collected: 08/27/15 09:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 16:13	EML	TAL NSH
Total/NA	Analysis	SM6200-B		10	10 mL	10 mL	280422	09/10/15 19:28	EML	TAL NSH
Total/NA	Analysis	SM6200-B		100	10 mL	10 mL	280422	09/10/15 19:56	EML	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-8
Date Collected: 08/27/15 09:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:01	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:14	BLG	TAL NSH

Client Sample ID: MW-37
Date Collected: 08/27/15 09:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 16:41	EML	TAL NSH
Total/NA	Analysis	SM6200-B		20	10 mL	10 mL	280422	09/10/15 21:20	EML	TAL NSH
Total/NA	Analysis	SM6200-B		200	10 mL	10 mL	280422	09/10/15 21:48	EML	TAL NSH
Total/NA	Analysis	SM6200-B		1000	10 mL	10 mL	280422	09/10/15 22:16	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		20	50 mL	50 mL	281489	09/14/15 14:40	LEG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:05	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:16	BLG	TAL NSH

Client Sample ID: RW-10
Date Collected: 08/27/15 10:45
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 17:09	EML	TAL NSH
Total/NA	Analysis	SM6200-B		20	10 mL	10 mL	280422	09/10/15 20:24	EML	TAL NSH
Total/NA	Analysis	SM6200-B		200	10 mL	10 mL	280422	09/10/15 20:52	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:10	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:18	BLG	TAL NSH

Client Sample ID: MW-12S
Date Collected: 08/27/15 12:10
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 13:52	EML	TAL NSH
Total/NA	Analysis	SM6200-B		20	10 mL	10 mL	280715	09/10/15 20:55	EML	TAL NSH
Total/NA	Analysis	SM6200-B		200	10 mL	10 mL	280715	09/10/15 21:21	EML	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: MW-12S
Date Collected: 08/27/15 12:10
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		20	50 mL	50 mL	281489	09/14/15 14:44	LEG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:14	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:26	BLG	TAL NSH

Client Sample ID: RW-1
Date Collected: 08/27/15 14:35
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 14:20	EML	TAL NSH
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280715	09/10/15 20:02	EML	TAL NSH
Total/NA	Analysis	SM6200-B		20	10 mL	10 mL	280715	09/10/15 20:28	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:19	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:28	BLG	TAL NSH

Client Sample ID: MW-64
Date Collected: 08/27/15 14:50
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 14:48	EML	TAL NSH
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280715	09/10/15 19:10	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:23	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:31	BLG	TAL NSH

Client Sample ID: RW-6
Date Collected: 08/28/15 13:20
Date Received: 08/29/15 09:00

Lab Sample ID: 490-86296-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280422	09/10/15 15:17	EML	TAL NSH
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	280715	09/10/15 19:36	EML	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	278181	09/01/15 13:48	ZLN	TAL NSH
Total/NA	Analysis	6010C		1	50 mL	50 mL	278555	09/02/15 12:27	NJB	TAL NSH
Total/NA	Prep	7470A			30.0 mL	30.0 mL	278583	09/02/15 14:47	BLG	TAL NSH

Lab Chronicle

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Client Sample ID: RW-6

Lab Sample ID: 490-86296-18

Date Collected: 08/28/15 13:20
Matrix: Water
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	30.0 mL	30.0 mL	278742	09/02/15 23:33	BLG	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 490-86296-19

Date Collected: 08/28/15 14:00
Matrix: Water
Date Received: 08/29/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM6200-B		1	10 mL	10 mL	279328	09/05/15 06:10	PS	TAL NSH

Laboratory References:

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

Method Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Method	Method Description	Protocol	Laboratory
SM6200-B	Volatile Organic Compounds	SM	TAL NSH
6010C	Metals (ICP)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL NSH

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

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

Certification Summary

Client: Piedmont Geologic P.C.
Project/Site: Lot 86

TestAmerica Job ID: 490-86296-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charlotte

490-86296 Chain of Custody

Cooler Received/Opened On: 8/29/2015 @0900

1. **Tracking #** 5312 **(last 4 digits, FedEx)**

Courier: Fed-Ex **IR Gun ID:** 14740456

2. **Temperature of rep. sample or temp blank when opened:** 1.7 ***Degrees Celsius***
3. **If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?** YES NO...NA
4. **Were custody seals on outside of cooler?** YES...NO...NA

   If yes, how many and where: Ø
5. **Were the seals intact, signed, and dated correctly?** YES...NO...NA
6. **Were custody papers inside cooler?** YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) Ø

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

   Were these signed and dated correctly? YES...NO...NA
8. **Packing mat'l used?** Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. **Cooling process:** Ice Ice-pack Ice (direct contact) Dry ice Other None
10. **Did all containers arrive in good condition (unbroken)?** YES...NO...NA
11. **Were all container labels complete (#, date, signed, pres., etc)?** YES...NO...NA
12. **Did all container labels and tags agree with custody papers?** YES...NO...NA

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

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

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

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

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

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

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

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

17. **Were custody papers properly filled out (ink, signed, etc)?** YES...NO...NA
18. **Did you sign the custody papers in the appropriate place?** YES...NO...NA
19. **Were correct containers used for the analysis requested?** YES...NO...NA
20. **Was sufficient amount of sample sent in each container?** YES...NO...NA

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

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

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

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Chain of Custody Record

TestAmerica

Loc: 490

86296

9/15/2015

Client Information	Sampler: Geoffrey Murphrey	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-41670-14128.3
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: ken.hayes@testamericainc.com		Page: 1 2 Page 1 of 2
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: Lot 86	Project #: 49009217			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	SM6200_B - Method Targets	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	A		
1	MW-36S	8/25/15	900	G	Water			X	X		
2	MW-16I		1055		Water						
3	MW-13D		1230		Water						
4	MW-16S		1325		Water						
5	MW-17D		1455		Water						
6	MW-17I		1537		Water						
7	MW-27	8/26/15	845		Water						
8	MW-17S		1030		Water						
9	MW-12I		1400		Water						
10	MW-61		1400		Water						
11	MW-3	8/27/15	845		Water						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/28/15 1600	PG		8-29-15 @ 0900	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.7c

Chain of Custody Record

TestAmerica

Loc: 490
86296

9/15/2015

Client Information	Sampler: Geoffrey Murphrey	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-41670-14128.4
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: ken.hayes@testamericainc.com		Page: 2 of 2
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: Lot 86	Project #: 49009217			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	SM6200_B - Method Targets	Total Number of containers	Special Instructions/Note:
				Preservation Code:				D	A		
12	MW-8	8/27/15	920	G	Water			X	X		
13	MW-37	↓	935	↓	Water			↓	↓		
14	RW-10	↓	1045	↓	Water			↓	↓		
15	MW-12S	↓	1210	↓	Water			↓	↓		
16	RW-1	↓	1435	↓	Water			↓	↓		
17	MW-64	↓	1450	↓	Water			↓	↓		
18	RW-6	8/28/15	1320	↓	Water			↓	↓		
19	TRIP Blank	↓	1400	↓	Water				↓		
					~~Water~~						
					~~Water~~						
					~~Water~~						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/28/15 1600	PG	[signature]	8-29-15 @ 0900	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.7c

Login Sample Receipt Checklist

Client: Piedmont Geologic P.C.

Job Number: 490-86296-1

Login Number: 86296
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-13604-1
Client Project/Site: NCSU Lot 86

For:
Piedmont Geologic P.C.
6003 Chapel Hill Road
Suite 145
Raleigh, North Carolina 27607

Attn: Pete Dressel

Elizabeth M. Hoerchler

Authorized for release by:
9/15/2015 3:34:47 PM
Elizabeth Hoerchler, Project Mgmt. Assistant
elizabeth.hoerchler@testamericainc.com

Designee for

Rhonda Ridenhower, Manager of Project Management
(314)298-8566
rhonda.ridenhower@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 160-13604-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Piedmont Geologic P.C.

Project: NCSU Lot 86

Report Number: 160-13604-1

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

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

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

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

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

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

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

RECEIPT

The samples were received on 09/01/2015; the samples arrived in good condition, properly preserved. The temperature of all 3 of the coolers at receipt was 20.0° C.

GROSS ALPHA AND GROSS BETA RADIOACTIVITY

Samples MW-34DR (160-13604-1), MW-46 (160-13604-2), MW-45R (160-13604-3), MW-41I (160-13604-4), MW-41S (160-13604-5), MW-42S (160-13604-6), MW-38 (160-13604-7), MW-43D (160-13604-8), MW-43S (160-13604-9), MW-47 (160-13604-10), MW-12D (160-13604-11), MW-35D (160-13604-12), MW-11I (160-13604-13), MW-16D (160-13604-14), MW-35S (160-13604-15), MW-41D (160-13604-16), MW-42I (160-13604-17), MW-36D (160-13604-18), MW-62 (160-13604-19), MW-36S (160-13604-20), MW-16I (160-13604-21), MW-13D (160-13604-22), MW-17D (160-13604-23), MW-27 (160-13604-24), MW-17I (160-13604-25), MW-12I (160-13604-26), MW-61 (160-13604-27), MW-3 (160-13604-28), MW-8 (160-13604-29), MW-37 (160-13604-30), RW-10 (160-13604-31), MW-12S (160-13604-32), RW-1 (160-13604-33) and RW-6 (160-13604-34) were analyzed for Gross Alpha and Gross Beta Radioactivity in accordance with USEPA Method 900.0. The samples were prepared on 09/02/2015 and analyzed on 09/07/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 160-13604-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

TRITIUM, TOTAL (LSC)

Samples MW-34DR (160-13604-1), MW-46 (160-13604-2), MW-45R (160-13604-3), MW-41I (160-13604-4), MW-41S (160-13604-5), MW-42S (160-13604-6), MW-38 (160-13604-7), MW-43D (160-13604-8), MW-43S (160-13604-9), MW-47 (160-13604-10), MW-12D (160-13604-11), MW-35D (160-13604-12), MW-11I (160-13604-13), MW-16D (160-13604-14), MW-35S (160-13604-15), MW-41D (160-13604-16), MW-42I (160-13604-17), MW-36D (160-13604-18), MW-62 (160-13604-19), MW-36S (160-13604-20), MW-16I (160-13604-21), MW-13D (160-13604-22), MW-17D (160-13604-23), MW-27 (160-13604-24), MW-17I (160-13604-25), MW-12I (160-13604-26), MW-61 (160-13604-27), MW-3 (160-13604-28), MW-8 (160-13604-29), MW-37 (160-13604-30), RW-10 (160-13604-31), MW-12S (160-13604-32), RW-1 (160-13604-33) and RW-6 (160-13604-34) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 09/11/2015 and analyzed on 09/13/2015 and 09/14/2015.

Prep batch: 210525
There was insufficient sample provided to perform the analysis at the method specified amount (100mL). A reduced sample amount was prepared (75mL). MW-34DR (160-13604-1), MW-46 (160-13604-2), (160-13604-B-1 DU) and (160-13604-B-2 MS)

Prep batch: 210547
There was insufficient sample provided to perform the analysis at the method specified amount (100mL). A reduced sample amount was prepared (75mL). MW-16I (160-13604-21), MW-13D (160-13604-22), (160-13604-B-21 DU) and (160-13604-B-22 MS)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Geoffrey Murphrey	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-3079-1430.1
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 1 of 4
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: NCSU Lot 86	Project #: 16002172			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0 - Gross Beta	906.0 - Tritium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N		
MW-34DR	8/18/15	1015	G	Water			X	X		
MW-46	↓	1115	↓	Water			↓	↓		
MW-45R	↓	1205	↓	Water			↓	↓		
MW-41I	↓	1358	↓	Water			↓	↓		
MW-41S	↓	1425	↓	Water			↓	↓		
MW-42S	↓	1513	↓	Water			↓	↓		
MW-38	8/19/15	1016	↓	Water			↓	↓		
MW-43D	↓	1156	↓	Water			↓	↓		
MW-43S	↓	1236	↓	Water			↓	↓		
MW-47	↓	1450	↓	Water			↓	↓		
MW-12D	8/20/15	855	↓	Water			↓	↓		

160-13604 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 8/31/15 1600	Company: PG	Received by: [signature]	Date/Time: 9.1.15 0915	Company: TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Geoffrey Murphrey	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-3079-1430.2
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 2 of 4
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: NCSU Lot 86	Project #: 16002172			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0 - Gross Beta	906.0 - Tritium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N		
MW-35D	8/20/15	1220	G	Water			X	X		
MW-11I	↓	1455	|	Water			|	|		
MW-16D	8/21/15	850	|	Water			|	|		
MW-35S	|	915	|	Water			|	|		
MW-41D	|	1100	|	Water			|	|		
MW-42I	|	1202	|	Water			|	|		
MW-36D	|	1458	|	Water			|	|		
MW-62	↓	1458	|	Water			|	|		
MW-36S	8/25/15	900	|	Water			|	|		
MW-16I	|	1055	|	Water			|	|		
MW-13D	↓	1230	↓	Water			↓	↓		

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 8/31/15 1600	Company: PG	Received by: [signature]	Date/Time: 9-1-15 0915	Company: TASR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Geoffrey Murphey	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-3079-1430.3
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 3 of 4
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: NCSU Lot 86	Project #: 16002172			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0 - Gross Beta	906.0 - Tritium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N		
MW-17D	8/25/15	1455	G	Water			X	X		
MW-27	8/26/15	845		Water						
MW-17I	8/25/15	1537		Water						
MW-12I	8/26/15	1400		Water						
MW-61	↓	1400		Water						
MW-3	8/27/15	845		Water						
MW-8		920		Water						
MW-37		935		Water						
RW-10		1045		Water						
MW-12S		1210		Water						
RW-1	↓	1435	↓	Water			↓	↓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/31/15 1600	Company: PG	Received by:	Date/Time: 9-1-15 0915	Company: TA STL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Geoffrey Murphey	Lab PM: Ridenhower, Rhonda E	Carrier Tracking No(s):	COC No: 160-3079-1430.4
Client Contact: Pete Dressel	Phone: 919-854-9700	E-Mail: rhonda.ridenhower@testamericainc.com		Page: Page 4 of 4
Company: Piedmont Geologic P.C.				Job #:
Address: 6003 Chapel Hill Road Suite 145	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27607				
Phone: 919-854-9700(Tel)	PO #: Purchase Order not required			
Email: pjdressel@piedmontgeologic.com	WO #:			
Project Name: NCSU Lot 86	Project #: 16002172			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	900.0 - Gross Beta	906.0 - Tritium	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N		
RW-6	8/28/15	1320	G	Water			X	X		
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/31/15 1600	Company: PG	Received by:	Date/Time: 9.1.15 0915	Company: TA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Piedmont Geologic P.C.

Job Number: 160-13604-1

Login Number: 13604
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

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

Definitions/Glossary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Method Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method	Method Description	Protocol	Laboratory
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-13604-1	MW-34DR	Water	08/18/15 10:15	09/01/15 09:15
160-13604-2	MW-46	Water	08/18/15 11:15	09/01/15 09:15
160-13604-3	MW-45R	Water	08/18/15 12:05	09/01/15 09:15
160-13604-4	MW-41I	Water	08/18/15 13:58	09/01/15 09:15
160-13604-5	MW-41S	Water	08/18/15 14:25	09/01/15 09:15
160-13604-6	MW-42S	Water	08/18/15 15:13	09/01/15 09:15
160-13604-7	MW-38	Water	08/19/15 10:16	09/01/15 09:15
160-13604-8	MW-43D	Water	08/19/15 11:56	09/01/15 09:15
160-13604-9	MW-43S	Water	08/19/15 12:36	09/01/15 09:15
160-13604-10	MW-47	Water	08/19/15 14:50	09/01/15 09:15
160-13604-11	MW-12D	Water	08/20/15 08:55	09/01/15 09:15
160-13604-12	MW-35D	Water	08/20/15 12:20	09/01/15 09:15
160-13604-13	MW-11I	Water	08/20/15 14:55	09/01/15 09:15
160-13604-14	MW-16D	Water	08/21/15 08:50	09/01/15 09:15
160-13604-15	MW-35S	Water	08/21/15 09:15	09/01/15 09:15
160-13604-16	MW-41D	Water	08/21/15 11:00	09/01/15 09:15
160-13604-17	MW-42I	Water	08/21/15 12:02	09/01/15 09:15
160-13604-18	MW-36D	Water	08/21/15 14:58	09/01/15 09:15
160-13604-19	MW-62	Water	08/21/15 14:58	09/01/15 09:15
160-13604-20	MW-36S	Water	08/25/15 09:00	09/01/15 09:15
160-13604-21	MW-16I	Water	08/25/15 10:55	09/01/15 09:15
160-13604-22	MW-13D	Water	08/25/15 12:30	09/01/15 09:15
160-13604-23	MW-17D	Water	08/25/15 14:55	09/01/15 09:15
160-13604-24	MW-27	Water	08/26/15 08:45	09/01/15 09:15
160-13604-25	MW-17I	Water	08/25/15 15:37	09/01/15 09:15
160-13604-26	MW-12I	Water	08/26/15 14:00	09/01/15 09:15
160-13604-27	MW-61	Water	08/26/15 14:00	09/01/15 09:15
160-13604-28	MW-3	Water	08/27/15 08:45	09/01/15 09:15
160-13604-29	MW-8	Water	08/27/15 09:20	09/01/15 09:15
160-13604-30	MW-37	Water	08/27/15 09:35	09/01/15 09:15
160-13604-31	RW-10	Water	08/27/15 10:45	09/01/15 09:15
160-13604-32	MW-12S	Water	08/27/15 12:10	09/01/15 09:15
160-13604-33	RW-1	Water	08/27/15 14:35	09/01/15 09:15
160-13604-34	RW-6	Water	08/28/15 13:20	09/01/15 09:15

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Client Sample ID: MW-34DR — Lab Sample ID: 160-13604-1

Date Collected: 08/18/15 10:15 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.10		0.401	0.416	4.00	0.574	pCi/L	09/02/15 10:35	09/07/15 13:59	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-168	U	224	225	500	456	pCi/L	09/11/15 15:06	09/13/15 22:26	1

Client Sample ID: MW-46 — Lab Sample ID: 160-13604-2

Date Collected: 08/18/15 11:15 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.66		0.456	0.485	4.00	0.567	pCi/L	09/02/15 10:35	09/07/15 14:09	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-64.0	U	243	243	500	467	pCi/L	09/11/15 15:06	09/13/15 23:13	1

Client Sample ID: MW-45R — Lab Sample ID: 160-13604-3

Date Collected: 08/18/15 12:05 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.251	U	0.296	0.297	4.00	0.479	pCi/L	09/02/15 10:35	09/07/15 14:09	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	22.5	U	251	251	500	456	pCi/L	09/11/15 15:06	09/13/15 23:59	1

Client Sample ID: MW-41I — Lab Sample ID: 160-13604-4

Date Collected: 08/18/15 13:58 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.298	U	0.320	0.322	4.00	0.517	pCi/L	09/02/15 10:35	09/07/15 14:09	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	90.1	U	258	258	500	453	pCi/L	09/11/15 15:06	09/14/15 00:22	1

Client Sample ID: MW-41S — Lab Sample ID: 160-13604-5

Date Collected: 08/18/15 14:25 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**6.58**		0.738	0.989	4.00	0.686	pCi/L	09/02/15 10:35	09/07/15 14:09	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-102	U	232	233	500	453	pCi/L	09/11/15 15:06	09/14/15 00:45	1

Client Sample ID: MW-42S — Lab Sample ID: 160-13604-6

Date Collected: 08/18/15 15:13 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**1.81**		0.435	0.471	4.00	0.529	pCi/L	09/02/15 10:35	09/07/15 14:09	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	0.000	U	247	247	500	456	pCi/L	09/11/15 15:06	09/14/15 01:08	1

Client Sample ID: MW-38 — Lab Sample ID: 160-13604-7

Date Collected: 08/19/15 10:16 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**2.90**		0.514	0.590	4.00	0.571	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	76.6	U	257	257	500	456	pCi/L	09/11/15 15:06	09/14/15 01:31	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Client Sample ID: MW-43D — Lab Sample ID: 160-13604-8

Date Collected: 08/19/15 11:56 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.09		0.389	0.403	4.00	0.538	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-87.4	U	236	236	500	456	pCi/L	09/11/15 15:06	09/14/15 01:54	1

Client Sample ID: MW-43S — Lab Sample ID: 160-13604-9

Date Collected: 08/19/15 12:36 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.50		0.385	0.413	4.00	0.478	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-104	U	225	225	500	434	pCi/L	09/11/15 15:06	09/14/15 02:17	1

Client Sample ID: MW-47 — Lab Sample ID: 160-13604-10

Date Collected: 08/19/15 14:50 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	2.39		0.483	0.539	4.00	0.561	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-9.01	U	245	245	500	453	pCi/L	09/11/15 15:06	09/14/15 02:40	1

Client Sample ID: MW-12D — Lab Sample ID: 160-13604-11

Date Collected: 08/20/15 08:55 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	3.78		0.555	0.671	4.00	0.538	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-71.6	U	238	238	500	456	pCi/L	09/11/15 15:06	09/14/15 03:03	1

Client Sample ID: MW-35D — Lab Sample ID: 160-13604-12

Date Collected: 08/20/15 12:20 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.31		0.393	0.414	4.00	0.515	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	40.5	U	248	248	500	447	pCi/L	09/11/15 15:06	09/14/15 03:26	1

Client Sample ID: MW-11I — Lab Sample ID: 160-13604-13

Date Collected: 08/20/15 14:55 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	3.08		0.493	0.582	4.00	0.482	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	842		341	349	500	456	pCi/L	09/11/15 15:06	09/14/15 03:49	1

Client Sample ID: MW-16D — Lab Sample ID: 160-13604-14

Date Collected: 08/21/15 08:50 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	3.92		0.558	0.682	4.00	0.547	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	230	U	271	271	500	444	pCi/L	09/11/15 15:06	09/14/15 04:13	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Client Sample ID: MW-35S — Lab Sample ID: 160-13604-15

Date Collected: 08/21/15 09:15
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	4.65		0.905	1.02	4.00	1.03	pCi/L	09/02/15 10:35	09/07/15 14:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-51.8	U	235	235	500	444	pCi/L	09/11/15 15:06	09/14/15 04:36	1

Client Sample ID: MW-41D — Lab Sample ID: 160-13604-16

Date Collected: 08/21/15 11:00
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	2.30		0.481	0.533	4.00	0.540	pCi/L	09/02/15 15:11	09/07/15 14:11	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	135	U	264	264	500	453	pCi/L	09/11/15 15:06	09/14/15 04:59	1

Client Sample ID: MW-42I — Lab Sample ID: 160-13604-17

Date Collected: 08/21/15 12:02
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	2.21		0.443	0.495	4.00	0.491	pCi/L	09/02/15 15:11	09/07/15 14:11	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	306	U	287	288	500	460	pCi/L	09/11/15 15:06	09/14/15 05:22	1

Client Sample ID: MW-36D — Lab Sample ID: 160-13604-18

Date Collected: 08/21/15 14:58
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.85		0.445	0.482	4.00	0.547	pCi/L	09/02/15 15:11	09/07/15 14:11	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-70.7	U	236	236	500	450	pCi/L	09/11/15 15:06	09/14/15 05:45	1

Client Sample ID: MW-62

Lab Sample ID: 160-13604-19
Date Collected: 08/21/15 14:58
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**1.96**		0.484	0.522	4.00	0.621	pCi/L	09/02/15 15:11	09/07/15 14:12	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	58.6	U	254	254	500	453	pCi/L	09/11/15 15:06	09/14/15 06:08	1

Client Sample ID: MW-36S

Lab Sample ID: 160-13604-20
Date Collected: 08/25/15 09:00
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**3.66**		0.538	0.651	4.00	0.513	pCi/L	09/02/15 15:11	09/07/15 14:12	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-117	U	231	231	500	453	pCi/L	09/11/15 15:06	09/14/15 06:31	1

Client Sample ID: MW-16I

Lab Sample ID: 160-13604-21
Date Collected: 08/25/15 10:55
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**5.65**		0.618	0.837	4.00	0.447	pCi/L	09/02/15 15:11	09/07/15 14:12	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**9030**		766	1100	500	397	pCi/L	09/11/15 19:01	09/13/15 22:20	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Client Sample ID: MW-13D
Lab Sample ID: 160-13604-22
Date Collected: 08/25/15 12:30
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	3.84		0.565	0.684	4.00	0.563	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	23.9	U	218	218	500	397	pCi/L	09/11/15 19:01	09/13/15 23:06	1

Client Sample ID: MW-17D
Lab Sample ID: 160-13604-23
Date Collected: 08/25/15 14:55
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.827		0.367	0.376	4.00	0.536	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-28.8	U	215	215	500	408	pCi/L	09/11/15 19:01	09/13/15 23:52	1

Client Sample ID: MW-27
Lab Sample ID: 160-13604-24
Date Collected: 08/26/15 08:45
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	9.85		0.849	1.30	4.00	0.668	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	34.7	U	225	225	500	411	pCi/L	09/11/15 19:01	09/14/15 00:15	1

Client Sample ID: MW-17I
Lab Sample ID: 160-13604-25
Date Collected: 08/25/15 15:37
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.973		0.398	0.410	4.00	0.576	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-41.9	U	211	211	500	403	pCi/L	09/11/15 19:01	09/14/15 00:38	1

Client Sample ID: MW-12I — Lab Sample ID: 160-13604-26

Date Collected: 08/26/15 14:00 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	5.64		0.672	0.878	4.00	0.616	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	4880		584	725	500	400	pCi/L	09/11/15 19:01	09/14/15 01:01	1

Client Sample ID: MW-61 — Lab Sample ID: 160-13604-27

Date Collected: 08/26/15 14:00 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	6.56		0.724	0.977	4.00	0.649	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	4610		566	696	500	395	pCi/L	09/11/15 19:01	09/14/15 01:24	1

Client Sample ID: MW-3 — Lab Sample ID: 160-13604-28

Date Collected: 08/27/15 08:45 — **Matrix: Water**
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	1.94		0.501	0.537	4.00	0.597	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	101	U	237	237	500	417	pCi/L	09/11/15 19:01	09/14/15 01:47	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Client Sample ID: MW-8 — Lab Sample ID: 160-13604-29

Date Collected: 08/27/15 09:20
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	3.22		0.536	0.625	4.00	0.583	pCi/L	09/02/15 15:11	09/07/15 19:23	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-41.0	U	209	209	500	397	pCi/L	09/11/15 19:01	09/14/15 02:10	1

Client Sample ID: MW-37 — Lab Sample ID: 160-13604-30

Date Collected: 08/27/15 09:35
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	12.7		0.979	1.60	4.00	0.699	pCi/L	09/02/15 15:11	09/07/15 19:24	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	69.4	U	226	226	500	403	pCi/L	09/11/15 19:01	09/14/15 02:33	1

Client Sample ID: RW-10 — Lab Sample ID: 160-13604-31

Date Collected: 08/27/15 10:45
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	2.69		0.484	0.554	4.00	0.517	pCi/L	09/02/15 15:11	09/07/15 19:24	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	3310		498	577	500	403	pCi/L	09/11/15 19:01	09/14/15 02:57	1

Client Sample ID: MW-12S — Lab Sample ID: 160-13604-32

Date Collected: 08/27/15 12:10
Date Received: 09/01/15 09:15
Matrix: Water

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	9.28		0.822	1.24	4.00	0.600	pCi/L	09/02/15 15:11	09/07/15 19:24	1

Client Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	214	U	242	242	500	395	pCi/L	09/11/15 19:01	09/14/15 03:20	1

Client Sample ID: RW-1

Lab Sample ID: 160-13604-33
Date Collected: 08/27/15 14:35
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.348	U	0.295	0.297	4.00	0.462	pCi/L	09/02/15 15:11	09/07/15 19:25	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	6.76	U	215	215	500	395	pCi/L	09/11/15 19:01	09/14/15 03:43	1

Client Sample ID: RW-6

Lab Sample ID: 160-13604-34
Date Collected: 08/28/15 13:20
Matrix: Water
Date Received: 09/01/15 09:15

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	**1.03**		0.381	0.394	4.00	0.534	pCi/L	09/02/15 15:11	09/07/15 19:24	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	132	U	234	234	500	400	pCi/L	09/11/15 19:01	09/14/15 04:06	1

QC Sample Results

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-209107/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 209733 — **Prep Batch: 209107**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	0.2078	U	0.320	0.320	4.00	0.536	pCi/L	09/02/15 10:35	09/07/15 13:59	1

Lab Sample ID: LCSB 160-209107/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 209733 — **Prep Batch: 209107**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	47.2	46.37		4.90	4.00	0.532	pCi/L	98	75 - 125

Lab Sample ID: MB 160-209154/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 209735 — **Prep Batch: 209154**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Beta	-0.1718	U	0.582	0.582	4.00	1.06	pCi/L	09/02/15 15:11	09/07/15 14:11	1

Lab Sample ID: LCSB 160-209154/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 209735 — **Prep Batch: 209154**

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	94.4	95.16		10.0	4.00	0.980	pCi/L	101	75 - 125

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-210525/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210921 — **Prep Batch: 210525**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-87.39	U	236	236	500	456	pCi/L	09/11/15 15:06	09/13/15 21:40	1

Lab Sample ID: LCS 160-210525/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210921 — **Prep Batch: 210525**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	3310	3725		658	500	485	pCi/L	112	74 - 114

Method: 906.0 - Tritium, Total (LSC) (Continued)

Lab Sample ID: 160-13604-2 MS — **Client Sample ID: MW-46**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210921 — **Prep Batch: 210525**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	-64.0	U	4420	4622		729	500	460	pCi/L	105	67 - 130

Lab Sample ID: 160-13604-1 DU — **Client Sample ID: MW-34DR**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210921 — **Prep Batch: 210525**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Tritium	-168	U	-151.8	U	227	500	456	pCi/L	0.04	1

Lab Sample ID: MB 160-210547/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210907 — **Prep Batch: 210547**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-0.4504	U	217	217	500	403	pCi/L	09/11/15 19:01	09/13/15 21:34	1

Lab Sample ID: LCS 160-210547/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210907 — **Prep Batch: 210547**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	3310	3006		551	500	408	pCi/L	91	74 - 114

Lab Sample ID: 160-13604-22 MS — **Client Sample ID: MW-13D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210907 — **Prep Batch: 210547**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	23.9	U	4420	4164		663	500	408	pCi/L	94	67 - 130

Lab Sample ID: 160-13604-21 DU — **Client Sample ID: MW-16I**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 210907 — **Prep Batch: 210547**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Tritium	9030		10200		1220	500	417	pCi/L	0.50	1

QC Association Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Rad

Prep Batch: 209107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13604-1	MW-34DR	Total/NA	Water	Evaporation	
160-13604-2	MW-46	Total/NA	Water	Evaporation	
160-13604-3	MW-45R	Total/NA	Water	Evaporation	
160-13604-4	MW-41I	Total/NA	Water	Evaporation	
160-13604-5	MW-41S	Total/NA	Water	Evaporation	
160-13604-6	MW-42S	Total/NA	Water	Evaporation	
160-13604-7	MW-38	Total/NA	Water	Evaporation	
160-13604-8	MW-43D	Total/NA	Water	Evaporation	
160-13604-9	MW-43S	Total/NA	Water	Evaporation	
160-13604-10	MW-47	Total/NA	Water	Evaporation	
160-13604-11	MW-12D	Total/NA	Water	Evaporation	
160-13604-12	MW-35D	Total/NA	Water	Evaporation	
160-13604-13	MW-11I	Total/NA	Water	Evaporation	
160-13604-14	MW-16D	Total/NA	Water	Evaporation	
160-13604-15	MW-35S	Total/NA	Water	Evaporation	
LCSB 160-209107/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-209107/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 209154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13604-16	MW-41D	Total/NA	Water	Evaporation	
160-13604-17	MW-42I	Total/NA	Water	Evaporation	
160-13604-18	MW-36D	Total/NA	Water	Evaporation	
160-13604-19	MW-62	Total/NA	Water	Evaporation	
160-13604-20	MW-36S	Total/NA	Water	Evaporation	
160-13604-21	MW-16I	Total/NA	Water	Evaporation	
160-13604-22	MW-13D	Total/NA	Water	Evaporation	
160-13604-23	MW-17D	Total/NA	Water	Evaporation	
160-13604-24	MW-27	Total/NA	Water	Evaporation	
160-13604-25	MW-17I	Total/NA	Water	Evaporation	
160-13604-26	MW-12I	Total/NA	Water	Evaporation	
160-13604-27	MW-61	Total/NA	Water	Evaporation	
160-13604-28	MW-3	Total/NA	Water	Evaporation	
160-13604-29	MW-8	Total/NA	Water	Evaporation	
160-13604-30	MW-37	Total/NA	Water	Evaporation	
160-13604-31	RW-10	Total/NA	Water	Evaporation	
160-13604-32	MW-12S	Total/NA	Water	Evaporation	
160-13604-33	RW-1	Total/NA	Water	Evaporation	
160-13604-34	RW-6	Total/NA	Water	Evaporation	
LCSB 160-209154/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-209154/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 210525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13604-1	MW-34DR	Total/NA	Water	LSC_Dist_Susp	
160-13604-1 DU	MW-34DR	Total/NA	Water	LSC_Dist_Susp	
160-13604-2	MW-46	Total/NA	Water	LSC_Dist_Susp	
160-13604-2 MS	MW-46	Total/NA	Water	LSC_Dist_Susp	
160-13604-3	MW-45R	Total/NA	Water	LSC_Dist_Susp	
160-13604-4	MW-41I	Total/NA	Water	LSC_Dist_Susp	
160-13604-5	MW-41S	Total/NA	Water	LSC_Dist_Susp	

QC Association Summary

Client: Piedmont Geologic P.C.
Project/Site: NCSU Lot 86

TestAmerica Job ID: 160-13604-1

Rad (Continued)

Prep Batch: 210525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13604-6	MW-42S	Total/NA	Water	LSC_Dist_Susp	
160-13604-7	MW-38	Total/NA	Water	LSC_Dist_Susp	
160-13604-8	MW-43D	Total/NA	Water	LSC_Dist_Susp	
160-13604-9	MW-43S	Total/NA	Water	LSC_Dist_Susp	
160-13604-10	MW-47	Total/NA	Water	LSC_Dist_Susp	
160-13604-11	MW-12D	Total/NA	Water	LSC_Dist_Susp	
160-13604-12	MW-35D	Total/NA	Water	LSC_Dist_Susp	
160-13604-13	MW-11I	Total/NA	Water	LSC_Dist_Susp	
160-13604-14	MW-16D	Total/NA	Water	LSC_Dist_Susp	
160-13604-15	MW-35S	Total/NA	Water	LSC_Dist_Susp	
160-13604-16	MW-41D	Total/NA	Water	LSC_Dist_Susp	
160-13604-17	MW-42I	Total/NA	Water	LSC_Dist_Susp	
160-13604-18	MW-36D	Total/NA	Water	LSC_Dist_Susp	
160-13604-19	MW-62	Total/NA	Water	LSC_Dist_Susp	
160-13604-20	MW-36S	Total/NA	Water	LSC_Dist_Susp	
LCS 160-210525/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-210525/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Prep Batch: 210547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-13604-21	MW-16I	Total/NA	Water	LSC_Dist_Susp	
160-13604-21 DU	MW-16I	Total/NA	Water	LSC_Dist_Susp	
160-13604-22	MW-13D	Total/NA	Water	LSC_Dist_Susp	
160-13604-22 MS	MW-13D	Total/NA	Water	LSC_Dist_Susp	
160-13604-23	MW-17D	Total/NA	Water	LSC_Dist_Susp	
160-13604-24	MW-27	Total/NA	Water	LSC_Dist_Susp	
160-13604-25	MW-17I	Total/NA	Water	LSC_Dist_Susp	
160-13604-26	MW-12I	Total/NA	Water	LSC_Dist_Susp	
160-13604-27	MW-61	Total/NA	Water	LSC_Dist_Susp	
160-13604-28	MW-3	Total/NA	Water	LSC_Dist_Susp	
160-13604-29	MW-8	Total/NA	Water	LSC_Dist_Susp	
160-13604-30	MW-37	Total/NA	Water	LSC_Dist_Susp	
160-13604-31	RW-10	Total/NA	Water	LSC_Dist_Susp	
160-13604-32	MW-12S	Total/NA	Water	LSC_Dist_Susp	
160-13604-33	RW-1	Total/NA	Water	LSC_Dist_Susp	
160-13604-34	RW-6	Total/NA	Water	LSC_Dist_Susp	
LCS 160-210547/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-210547/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	