DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Ross Klingman, P.G. Phone: 704-344-1450

E-mail: buxtonenv@bellsouth.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Gaston County Closed Biggerstaff Landfill	Abel Drive Bessemer City, NC	36-02	.0500	May 13, 2014

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Ross Klingman, P.G. President 704-344-1450

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 1-6-15 Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

Buxton Environmental, Inc.; 1101 South Blvd., Suite 101; Charlotte, NC 28203

Facility Representative Address

C-278

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

FIRST SEMI-ANNUAL 2014
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Prepared for:

Mr. Ray Maxwell, PE
Gaston County Public Works
P.O. Box 1578
Gastonia, North Carolina 28053

May 30, 2014

Prepared by:

Ross Klingman, P.G.
Senior Geologist

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

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FIRST SEMI-ANNUAL 2014
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

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FIRST SEMI-ANNUAL 2014
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the first semi-annual 2014 groundwater and surface water monitoring activities conducted at the Gaston County Closed Biggerstaff Landfill located in Gaston County, North Carolina. The purpose for conducting the assessment was to monitor groundwater, surface water and hydrogeologic conditions at the subject site. A site location map and site layout map are provided in Figures 1 and 2, respectively.

The monitoring activities were conducted in general accordance with the North Carolina Department of Environment and Natural Resources, Division of Waste Management-Solid Waste Section (NCDWM) rules, NCDWM memorandums dated October 27, 2006, February 23, 2007 and October 16, 2007 concerning changes to laboratory detection limits and reporting requirements, and the NCDWM guidelines dated April 2008 for groundwater and surface water sampling. In addition, the North Carolina Ground Water Protection Standards (NCGPS's) in this report have been updated to reflect current standards. A summary of background information, and the methods, results, conclusions and recommendations of this investigation are outlined below.

2.0 BACKGROUND INFORMATION

Based on review of aerial photographs and discussions with Gaston County personnel, the subject facility was opened prior to 1968 and remained in operation until it closed in approximately 1986. The subject property consists of approximately 60 acres and currently contains a landing strip used by a local model airplane club.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at five shallow monitor wells MW-1 through MW-5. The groundwater samples have been analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples collected during these activities indicated several VOC's and metals above NCGPS's.

Due to the presence of target constituents above the NCGPS's, the NCDWM requested that additional assessment be conducted to determine the extent of affected groundwater and the existence of surrounding water supply wells. According to a March 22, 2001 *Site Assessment Activities for Biggerstaff Closed Landfill* report prepared by Resolve Environmental Services, P.A., two deep monitor wells MW-2D and MW-4D were installed adjacent to monitor wells MW-2 and MW-4, respectively. Groundwater samples collected at MW-2D indicated the presence of 61 micrograms per liter (ug/l) cadmium and 150 ug/l lead, and MW-4D indicated the presence of 9 ug/l cadmium and 22 ug/l lead, which were above the NCGPS's. During the assessment, a total of 15 water supply wells were identified within a 0.5 mile radius of the former landfill. According to the report, these water supply wells were either located upgradient or across shallow groundwater divides.

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On May 15, 2014, Buxton Environmental, Inc. conducted the first semi-annual 2014 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at five shallow monitor wells MW-1, MW-2, MW-3, MW-4 and MW-5, and two deep monitor wells MW-2D and MW-4D. Two surface water samples Upstream and Downstream were collected along the tributary creek located downgradient and to the south of the landfill area.

Prior to conducting the sampling activities, groundwater levels were obtained from each well with a depth-to-water electrode to the nearest 0.01 foot. Following the gauging activities, each well was purged of three well bore volumes of water or until dryness with a disposable Teflon bailer attached to new nylon rope. Purge water was poured on the ground surface at respective well heads. Field parameters including pH, conductivity and temperature were collected following purging at each well and at each surface water sample location by Buxton Environmental, Inc. utilizing a calibrated EXTECH Instruments ExStik meter. Groundwater gauging and field parameter data are provided in Tables 1 and 2, respectively.

The groundwater and surface water samples were analyzed for Appendix I VOC's by EPA Method 8260B, and 8 RCRA metals by EPA Methods 6010C and 7470A. For quality control purposes, one trip blank was analyzed for Appendix I VOC's. The trip blank was prepared by the laboratory. The laboratory analyses were conducted by Shealy Environmental Services, Inc. in West Columbia, South Carolina. The water samples were collected in general accordance with accepted protocol, including chain-of-custody documentation.

The monitor wells were locked and appeared to be in good condition during the sampling event.

4.0 GROUNDWATER FLOW DIRECTION

Based on groundwater levels obtained on May 15, 2014, shallow groundwater flows southeast towards tributary creeks located on the eastern and southern sides of the property. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.04 feet per feet (ft/ft) was observed between shallow monitor wells MW-1 and MW-3. An upward vertical hydraulic gradient of 0.11 ft/ft was observed at nested monitor wells MW-2 and MW-2D. A downward vertical hydraulic gradient of 0.005 ft/ft was observed at nested monitor wells MW-4 and MW-4D. Upward vertical hydraulic gradients are generally associated with groundwater discharge zones and downward vertical hydraulic gradients were generally associated with groundwater recharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the first semi-annual 2014 event are presented in Tables 3 and 4, respectively, and are illustrated in Figure 4. Laboratory data sheets are presented in Appendix A. Historical groundwater analytical results are presented in Appendix B.

Groundwater samples collected at monitor wells MW-1, MW-2, MW-4D and MW-5 indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-1 indicated the presence of 2.3 ug/l benzene. Groundwater sample MW-2 indicated the presence of 27 ug/l cis-1,2-dichloroethene and 6.7 ug/l vinyl chloride. Groundwater sample MW-4D indicated the presence of 2.2 ug/l benzene, 13 ug/l 1,4-dichlorobenzene, 8.5 ug/l vinyl chloride and 5.2 ug/l cadmium. Groundwater sample MW-5 indicated the presence of 3.8 ug/l benzene and 8.7 ug/l 1,4-dichlorobenzene. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

Surface water sample (Upstream) indicated the presence 12 ug/l arsenic, which is above the North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Long Creek (Class WS-II water) or EPA National Criteria standards (utilized by North Carolina Division of Water Quality as default standards for non listed parameters) (NCSWWS's). Surface water sample (Downstream) did not indicate the presence of quantifiable target constituents above established NCSWWS's.

The trip blank did not indicate the presence of VOC's above method detection limits.

6.0 CONCLUSIONS

On May 15, 2014, Buxton Environmental, Inc. conducted the first semi-annual 2014 groundwater and surface water monitoring activities at the Closed Biggerstaff Landfill located in Gaston County, North Carolina. A summary of the findings of this investigation is provided below.

- Shallow groundwater flow at the site is to the southeast.
- Groundwater samples collected at MW-1, MW-2, MW-4D and MW-5 indicated target constituents above the NCGPS's
- Surface water sample Upstream indicated arsenic above established NCSWWS's.

7.0 RECOMMENDATIONS

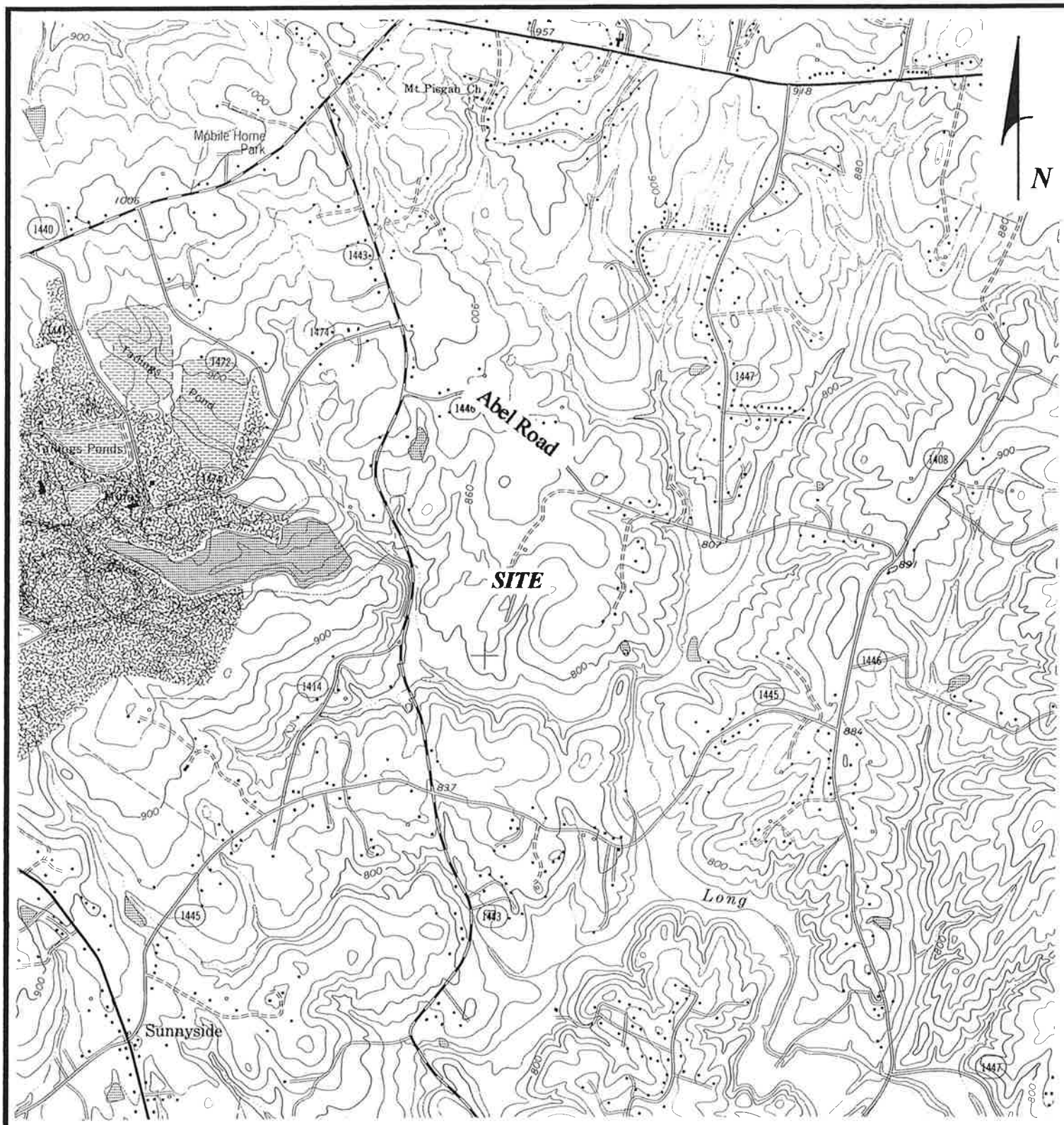
Based on the findings of this assessment, Buxton Environmental, Inc. makes the following recommendations.

- Semi-annual groundwater and surface water monitoring should continue to be conducted at the Closed Biggerstaff Landfill. The next sampling event is anticipated to be conducted in November 2014.

- A copy of this report should be forwarded to the NCDWM for their review.

rk:reports:biggerstaffrpt.514

FIGURES

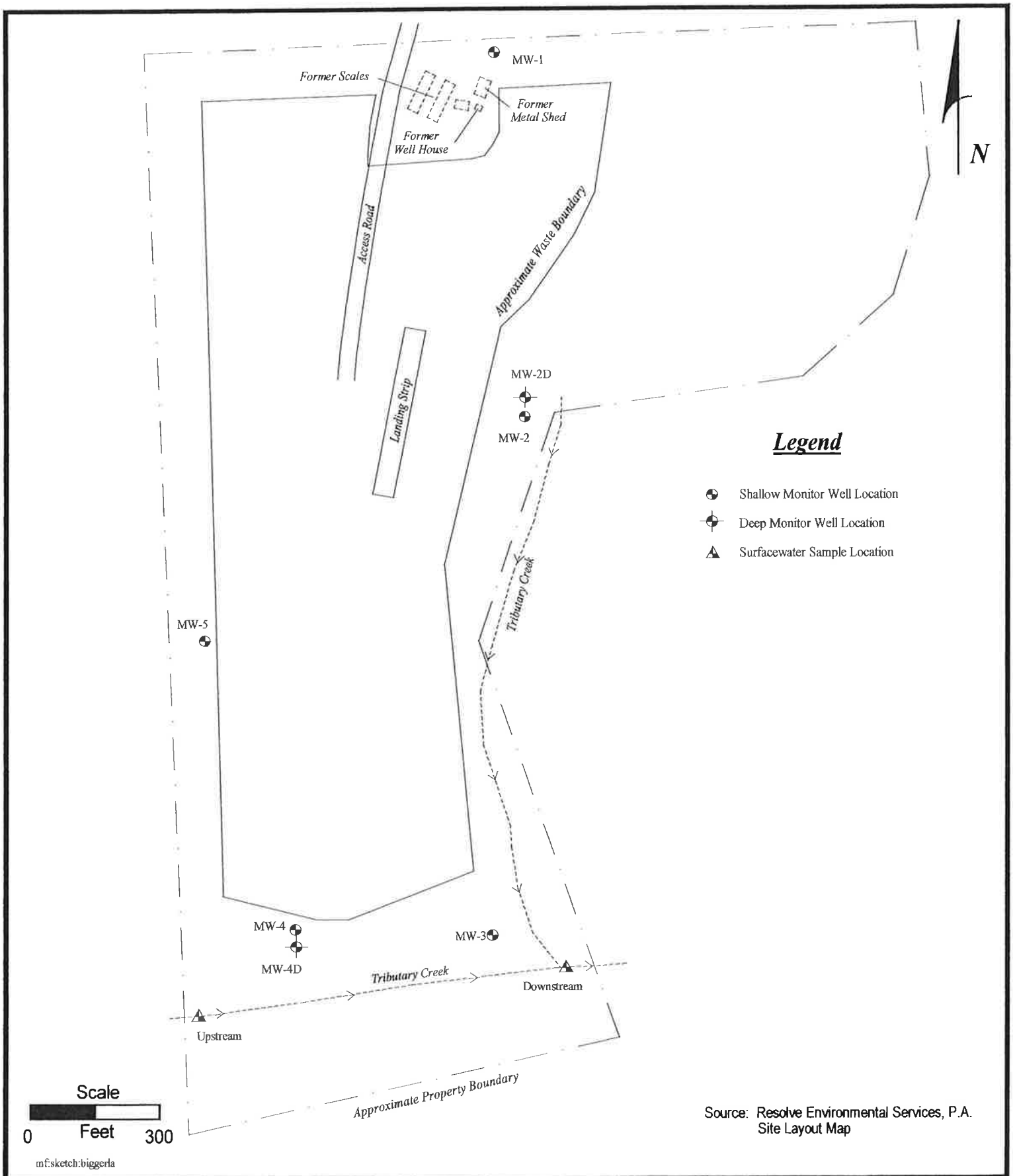


Scale

0 Feet 2,000

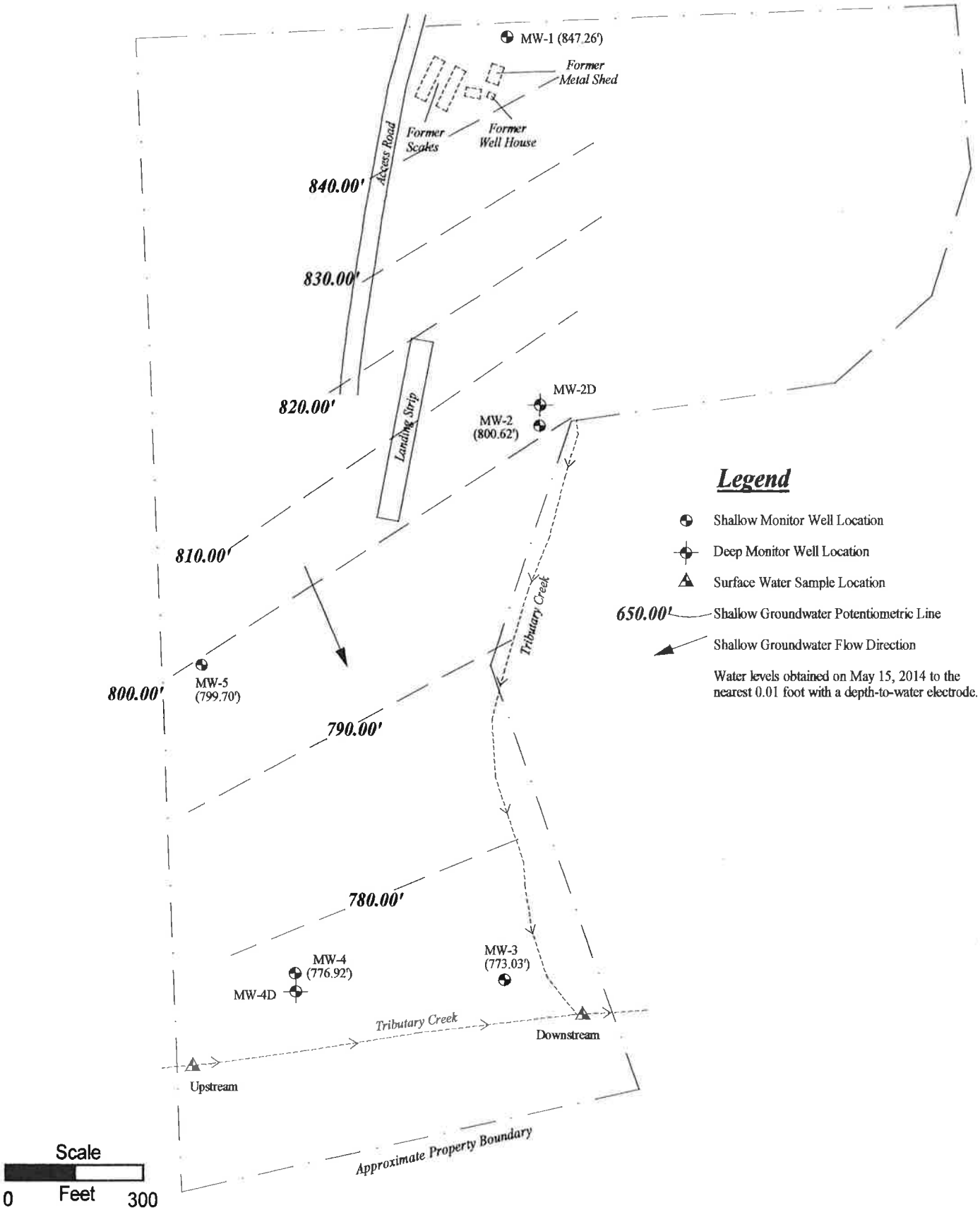
Source: United States Geological Survey, 1993 Bessemer City, North Carolina Quadrangle

Gaston County **Closed Biggerstaff Landfill** **Gaston County, North Carolina**	Buxton Environmental, Inc.	Figure 1. Site Location Map

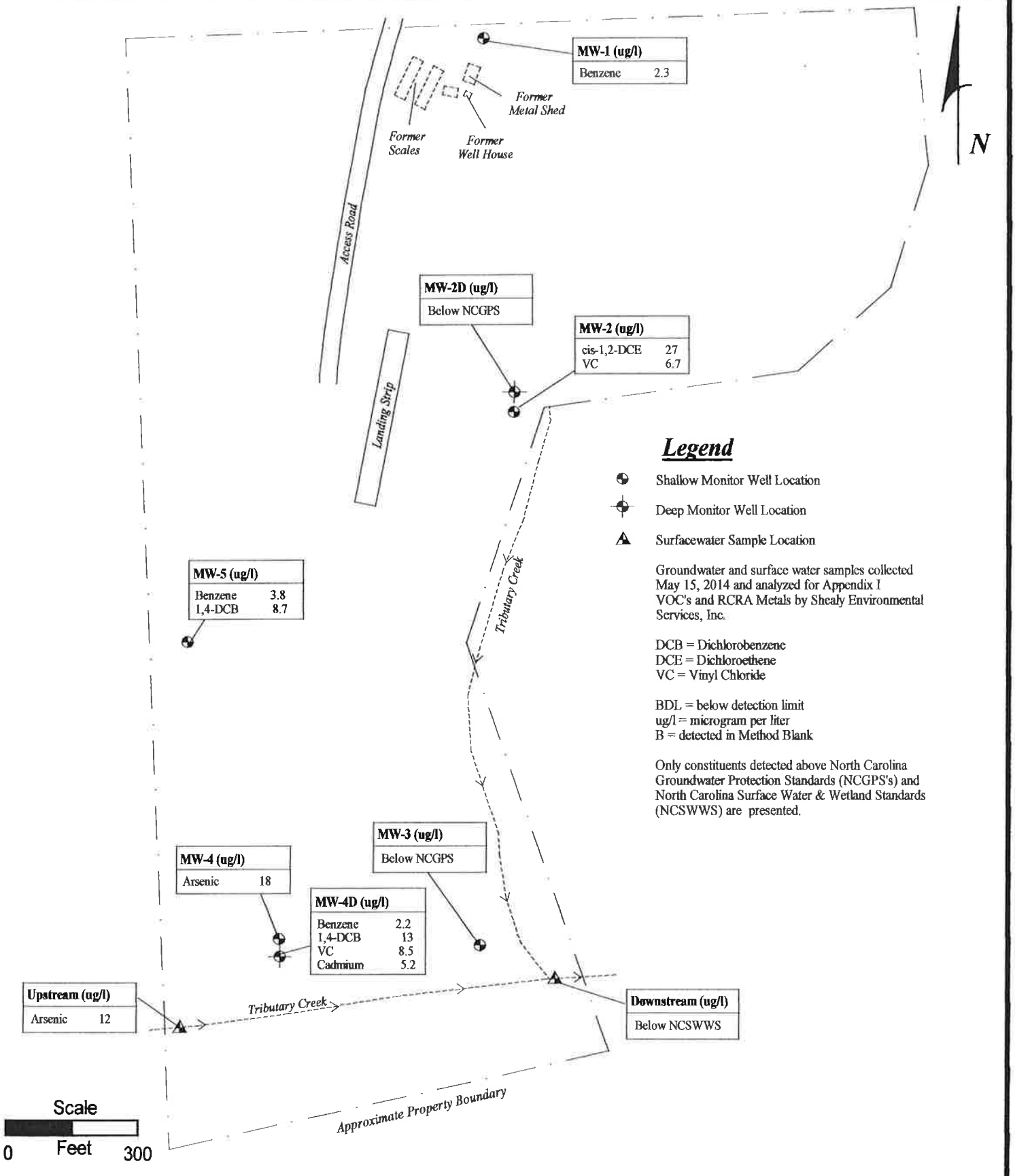


Source: Resolve Environmental Services, P.A. Site Layout Map

Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 2. Site Layout Map



Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 3. Shallow Groundwater Flow First Semi-Annual 2014



Gaston County Closed Biggerstaff Landfill Gaston County, North Carolina	**Buxton Environmental, Inc.**	Figure 4. Groundwater Analytical Results First Semi-Annual 2014

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 15, 2014

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	33.20	872.88	25.62	847.26
MW-2	18.00	811.01	10.39	800.62
MW-2D	45.00	812.48	9.03	803.45
MW-3	18.10	781.76	8.73	773.03
MW-4	18.50	786.22	9.30	776.92
MW-4D	45.00	784.55	7.78	776.77
MW-5	33.20	825.72	26.02	799.70

Notes:
Depth-to-water measurements collected on May 15, 2014 with a depth-to-water electrode.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
TOC elevations at MW-1, MW-2, MW-3, MW-4 and MW-5 are relative to mean sea level and were surveyed by Robinson & Sawyer, Inc. on August 5, 1993.

TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 15, 2014

Well ID	***Field Parameters***		
	pH (standard units)	***K (uS)***	***T (fahrenheit)***
MW-1	5.55	32.3	66.6
MW-2	6.02	30.4	61.9
MW-2D	6.49	76.8	64.6
MW-3	5.28	86.2	63.9
MW-4	5.90	223	63.1
MW-4D	6.24	936	65.1
MW-5	5.52	179	64.4
Upstream	7.04	118	66.7
Downstream	6.60	123	66.9

Notes:
Field parameters collected on May 15, 2014 with calibrated EXTECH Instruments ExStik meter
uS = microsiemens
K = conductivity; T = temperature

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 15, 2014

Sample ID	***MW-1***	***MW-2***	***MW-2D***	***MW-3***	***MW-4***	***MW-4D***	***MW-5***	***NCGPS***
Appendix I VOC's								
Acetone	8.1J	BDL	BDL	BDL	BDL	BDL	1,200	6,000
Benzene	**2.3**	0.85J	BDL	BDL	0.89J	**2.2**	**3.8**	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	73	4,000
Chlorobenzene	0.79J	BDL	BDL	BDL	2.6	14	33	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	0.55J	1.8J	4,000
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	0.86J	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	2.7	1.6	20
1,4-Dichlorobenzene	2.9	0.54J	BDL	BDL	1.8	**13**	**8.7**	6
1,1-Dichloroethane	0.88J	0.71J	BDL	BDL	0.77J	3.2	BDL	6
cis-1,2-Dichloroethene	4.5	**27**	0.32J	BDL	0.4J	16	0.5J	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	0.28J	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	0.65J	BDL	1
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	0.83J	280
Methylene Chloride	3.2	1.2	BDL	BDL	BDL	BDL	BDL	5
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	560
Tetrachloroethene	0.81J	BDL	0.23J	BDL	BDL	BDL	BDL	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	0.38J	140	600
Trichloroethene	0.64J	0.43J	BDL	BDL	BDL	0.87J	BDL	3
Vinyl Chloride	0.33J	**6.7**	BDL	BDL	0.85J	**8.5**	BDL	0.03
Xylenes	15	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals								
Arsenic	7.8J	5.8J	6.6J	7.3J	**18**	9.7J	BDL	10
Barium	28	58	19J	33	10J	150	260	700
Cadmium	BDL	BDL	BDL	BDL	BDL	**5.2**	0.89J	2
Lead	3BJ	2.5BJ	BDL	2.9BJ	BDL	4.1BJ	2BJ	15
Mercury	0.038J	BDL	BDL	BDL	BDL	BDL	0.059J	1

Notes:
Groundwater samples were collected on May 15, 2014 and analyzed for above constituents by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
Bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL (According to NCAC Title 15A Subchapter 2L North Carolina Groundwater Quality Standards (primary standard used to establish NCGPS's) dated January 1, 2010, J-flagged groundwater data exceeding the standard does not constitute an exceedance).
NT = not tested, limited water in well
B = detected in method blank

TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA
MAY 15, 2014

Sample ID	***Upstream***	***Downstream***	***NCSWWS***
Appendix I VOC's			
cis-1,2-Dichloroethene	BDL	0.28J	330
Trichloroethene	0.58J	0.3J	2.5
RCRA Metals			
Arsenic	**12**	8.7J	10
Barium	18J	18J	1,000
Chromium	3.6J	3J	50
Lead	3.7BJ	BDL	25

Notes:
Surface water samples collected May 15, 2014 and analyzed for above constituents by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCSWWS = North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Long Creek (Class WS-II Water) or are EPA National Criteria.
VOC's = volatile organic compounds
bold and shade denotes above established NCSWWS (J-flagged data not considered since estimated)
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NS = no standard

APPENDIX A
LABORATORY DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Buxton Environmental
PO Box 11550
Charlotte, NC 28220
Attention: Ross Klingman

Project Name: **Gaston Co. - Biggerstaff Landfill**

Project Number: **NC**

Lot Number: **PE16078**

Date Completed: **05/27/2014**

Nisreen Saikaly
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • • •

Case Narrative
Buxton Environmental
Lot Number: PE16078

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
Buxton Environmental
Lot Number: PE16078

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	05/15/2014 1100	05/16/2014
002	MW-2	Aqueous	05/15/2014 1130	05/16/2014
003	MW-2D	Aqueous	05/15/2014 1200	05/16/2014
004	MW-3	Aqueous	05/15/2014 1430	05/16/2014
005	MW-4	Aqueous	05/15/2014 1345	05/16/2014
006	MW-4D	Aqueous	05/15/2014 1400	05/16/2014
007	MW-5	Aqueous	05/15/2014 1230	05/16/2014
008	UPSTREAM	Aqueous	05/15/2014 1300	05/16/2014
009	DOWNSTREAM	Aqueous	05/15/2014 1500	05/16/2014
010	TRIP BLANK	Aqueous	05/15/2014	05/16/2014

(10 samples)

Executive Summary
Buxton Environmental
Lot Number: PE16078

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Acetone	8260B	8.1	J	ug/L	6
001	MW-1	Aqueous	Benzene	8260B	2.3		ug/L	6
001	MW-1	Aqueous	Chlorobenzene	8260B	0.79	J	ug/L	6
001	MW-1	Aqueous	1,4-Dichlorobenzene	8260B	2.9		ug/L	6
001	MW-1	Aqueous	1,1-Dichloroethane	8260B	0.88	J	ug/L	6
001	MW-1	Aqueous	cis-1,2-Dichloroethene	8260B	4.5		ug/L	6
001	MW-1	Aqueous	Methylene chloride	8260B	3.2		ug/L	6
001	MW-1	Aqueous	Tetrachloroethene	8260B	0.81	J	ug/L	6
001	MW-1	Aqueous	Trichloroethene	8260B	0.64	J	ug/L	6
001	MW-1	Aqueous	Vinyl chloride	8260B	0.33	J	ug/L	7
001	MW-1	Aqueous	Xylenes (total)	8260B	15		ug/L	7
001	MW-1	Aqueous	Arsenic	6010C	0.0078	J	mg/L	8
001	MW-1	Aqueous	Barium	6010C	0.028		mg/L	8
001	MW-1	Aqueous	Lead	6010C	0.0030	BJ	mg/L	8
001	MW-1	Aqueous	Mercury	7470A	0.000038	J	mg/L	8
002	MW-2	Aqueous	Benzene	8260B	0.85	J	ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	0.54	J	ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	0.71	J	ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	27		ug/L	9
002	MW-2	Aqueous	Methylene chloride	8260B	1.2		ug/L	9
002	MW-2	Aqueous	Trichloroethene	8260B	0.43	J	ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	6.7		ug/L	10
002	MW-2	Aqueous	Arsenic	6010C	0.0058	J	mg/L	11
002	MW-2	Aqueous	Barium	6010C	0.058		mg/L	11
002	MW-2	Aqueous	Lead	6010C	0.0025	BJ	mg/L	11
003	MW-2D	Aqueous	cis-1,2-Dichloroethene	8260B	0.32	J	ug/L	12
003	MW-2D	Aqueous	Tetrachloroethene	8260B	0.23	J	ug/L	12
003	MW-2D	Aqueous	Arsenic	6010C	0.0066	J	mg/L	14
003	MW-2D	Aqueous	Barium	6010C	0.019	J	mg/L	14
004	MW-3	Aqueous	Arsenic	6010C	0.0073	J	mg/L	17
004	MW-3	Aqueous	Barium	6010C	0.033		mg/L	17
004	MW-3	Aqueous	Lead	6010C	0.0029	BJ	mg/L	17
005	MW-4	Aqueous	Benzene	8260B	0.89	J	ug/L	18
005	MW-4	Aqueous	Chlorobenzene	8260B	2.6		ug/L	18
005	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	1.8		ug/L	18
005	MW-4	Aqueous	1,1-Dichloroethane	8260B	0.77	J	ug/L	18
005	MW-4	Aqueous	cis-1,2-Dichloroethene	8260B	0.40	J	ug/L	18
005	MW-4	Aqueous	Vinyl chloride	8260B	0.85	J	ug/L	19
005	MW-4	Aqueous	Arsenic	6010C	0.018		mg/L	20
005	MW-4	Aqueous	Barium	6010C	0.010	J	mg/L	20
006	MW-4D	Aqueous	Benzene	8260B	2.2		ug/L	21
006	MW-4D	Aqueous	Chlorobenzene	8260B	14		ug/L	21
006	MW-4D	Aqueous	Chloroethane	8260B	0.55	J	ug/L	21
006	MW-4D	Aqueous	1,2-Dichlorobenzene	8260B	2.7		ug/L	21
006	MW-4D	Aqueous	1,4-Dichlorobenzene	8260B	13		ug/L	21

Executive Summary (Continued)

Lot Number: PE16078

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
006	MW-4D	Aqueous	1,1-Dichloroethane	8260B	3.2		ug/L	21
006	MW-4D	Aqueous	cis-1,2-Dichloroethene	8260B	16		ug/L	21
006	MW-4D	Aqueous	1,2-Dichloropropane	8260B	0.65	J	ug/L	21
006	MW-4D	Aqueous	Toluene	8260B	0.38	J	ug/L	21
006	MW-4D	Aqueous	Trichloroethene	8260B	0.87	J	ug/L	21
006	MW-4D	Aqueous	Vinyl chloride	8260B	8.5		ug/L	22
006	MW-4D	Aqueous	Arsenic	6010C	0.0097	J	mg/L	23
006	MW-4D	Aqueous	Barium	6010C	0.15		mg/L	23
006	MW-4D	Aqueous	Cadmium	6010C	0.0052		mg/L	23
006	MW-4D	Aqueous	Lead	6010C	0.0041	BJ	mg/L	23
007	MW-5	Aqueous	Acetone	8260B	1200		ug/L	24
007	MW-5	Aqueous	Benzene	8260B	3.8		ug/L	24
007	MW-5	Aqueous	2-Butanone (MEK)	8260B	73		ug/L	24
007	MW-5	Aqueous	Chlorobenzene	8260B	33		ug/L	24
007	MW-5	Aqueous	Chloroethane	8260B	1.8	J	ug/L	24
007	MW-5	Aqueous	Chloromethane (Methyl chloride)	8260B	0.86	J	ug/L	24
007	MW-5	Aqueous	1,2-Dichlorobenzene	8260B	1.6		ug/L	24
007	MW-5	Aqueous	1,4-Dichlorobenzene	8260B	8.7		ug/L	24
007	MW-5	Aqueous	cis-1,2-Dichloroethene	8260B	0.50	J	ug/L	24
007	MW-5	Aqueous	2-Hexanone	8260B	0.83	J	ug/L	24
007	MW-5	Aqueous	4-Methyl-2-pentanone	8260B	1.2	J	ug/L	24
007	MW-5	Aqueous	Toluene	8260B	140		ug/L	24
007	MW-5	Aqueous	Barium	6010C	0.26		mg/L	26
007	MW-5	Aqueous	Cadmium	6010C	0.00089	J	mg/L	26
007	MW-5	Aqueous	Lead	6010C	0.0020	BJ	mg/L	26
007	MW-5	Aqueous	Mercury	7470A	0.000059	J	mg/L	26
008	UPSTREAM	Aqueous	Trichloroethene	8260B	0.58	J	ug/L	27
008	UPSTREAM	Aqueous	Arsenic	6010C	0.012		mg/L	29
008	UPSTREAM	Aqueous	Barium	6010C	0.018	J	mg/L	29
008	UPSTREAM	Aqueous	Chromium	6010C	0.0036	J	mg/L	29
008	UPSTREAM	Aqueous	Lead	6010C	0.0037	BJ	mg/L	29
009	DOWNSTREAM	Aqueous	cis-1,2-Dichloroethene	8260B	0.28	J	ug/L	30
009	DOWNSTREAM	Aqueous	Trichloroethene	8260B	0.30	J	ug/L	30
009	DOWNSTREAM	Aqueous	Arsenic	6010C	0.0087	J	mg/L	32
009	DOWNSTREAM	Aqueous	Barium	6010C	0.018	J	mg/L	32
009	DOWNSTREAM	Aqueous	Chromium	6010C	0.0030	J	mg/L	32

(81 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1100**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0253	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**8.1**	**J**	**20**	**6.7**	**ug/L**	**1**
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**2.3**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**0.79**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**2.9**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.88**	**J**	**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**4.5**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**3.2**		**1.0**	**0.33**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.81**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**0.64**	**J**	**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1100**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0253	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**0.33**	**J**	**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**15**		**1.0**	**0.33**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
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J = Estimated result < PQL and ≥ MDL
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N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1100**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2054	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0204	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0078**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.028**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0030**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000038**	**J**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-2**
Date Sampled: **05/15/2014 1130**
Date Received: **05/16/2014**

Laboratory ID: **PE16078-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0315	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.85**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**0.54**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.71**	**J**	**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**27**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**1.2**		**1.0**	**0.33**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**0.43**	**J**	**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1130**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0315	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**6.7**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1130**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2056	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0208	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0058**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.058**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0025**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-003**
Description: **MW-2D**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1200**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0338	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.32**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	**127-18-4**	**8260B**	**0.23**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-003**
Description: **MW-2D**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1200**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0338	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-003**
Description: **MW-2D**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1200**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2101	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0219	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0066**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.019**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1430**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0401	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1430**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0401	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-004**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1430**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2103	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0223	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0073**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.033**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0029**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1345**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0424	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.89**	**J**	**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**2.6**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**1.8**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.77**	**J**	**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.40**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1345**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0424	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**0.85**	**J**	**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-005**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1345**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2109	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0227	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.018**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.010**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-4D**
Date Sampled: **05/15/2014 1400**
Date Received: **05/16/2014**

Laboratory ID: **PE16078-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0446	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**2.2**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**14**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**0.55**	**J**	**2.0**	**0.47**	**ug/L**	**1**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	**95-50-1**	**8260B**	**2.7**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**13**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**3.2**		**1.0**	**0.13**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**16**		**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	**78-87-5**	**8260B**	**0.65**	**J**	**1.0**	**0.19**	**ug/L**	**1**
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.38**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**0.87**	**J**	**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-006**
Description: **MW-4D**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1400**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0446	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**8.5**		**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-006**
Description: **MW-4D**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1400**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2113	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0230	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0097**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.15**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0052**		**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0041**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-007**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1230**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0509	PMM2		47260
2	5030B	8260B	10	05/23/2014 0631	PMM2		47350

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**1200**		**200**	**67**	**ug/L**	**2**
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**3.8**		**1.0**	**0.13**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**73**		**10**	**2.0**	**ug/L**	**1**
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	**108-90-7**	**8260B**	**33**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**1.8**	**J**	**2.0**	**0.47**	**ug/L**	**1**
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	**74-87-3**	**8260B**	**0.86**	**J**	**1.0**	**0.35**	**ug/L**	**1**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	**95-50-1**	**8260B**	**1.6**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**8.7**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.50**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	**591-78-6**	**8260B**	**0.83**	**J**	**10**	**0.27**	**ug/L**	**1**
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	**108-10-1**	**8260B**	**1.2**	**J**	**10**	**0.31**	**ug/L**	**1**
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	**108-88-3**	**8260B**	**140**		**1.0**	**0.33**	**ug/L**	**1**
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-007**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1230**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0509	PMM2		47260
2	5030B	8260B	10	05/23/2014 0631	PMM2		47350

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130		104	70-130
Bromofluorobenzene		108	70-130		100	70-130
Toluene-d8		94	70-130		106	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-007**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1230**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2114	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0234	BNW	05/21/2014 1130	47184
2	3005A	6010C	1	05/23/2014 0029	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	2
Barium	**7440-39-3**	**6010C**	**0.26**		**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.00089**	**J**	**0.0020**	**0.00060**	**mg/L**	**1**
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	**7439-92-1**	**6010C**	**0.0020**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	**7439-97-6**	**7470A**	**0.000059**	**J**	**0.00010**	**0.000015**	**mg/L**	**1**
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-008**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0532	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**0.58**	**J**	**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-008**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0532	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Laboratory ID: **PE16078-008**
Description: **UPSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1300**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2116	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0238	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.012**		**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.018**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.0036**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.0037**	**BJ**	**0.010**	**0.0019**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit
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P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **DOWNSTREAM**
Date Sampled: **05/15/2014 1500**
Date Received: **05/16/2014**

Laboratory ID: **PE16078-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0555	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	**156-59-2**	**8260B**	**0.28**	**J**	**1.0**	**0.12**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	**79-01-6**	**8260B**	**0.30**	**J**	**1.0**	**0.18**	**ug/L**	**1**
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-009**
Description: **DOWNSTREAM**
Matrix: **Aqueous**
Date Sampled: **05/15/2014 1500**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0555	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
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E = Quantitation of compound exceeded the calibration range
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ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

RCRA Metals

Client: **Buxton Environmental**
Description: **DOWNSTREAM**
Date Sampled: **05/15/2014 1500**
Date Received: **05/16/2014**

Laboratory ID: **PE16078-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/23/2014 2121	COH	05/23/2014 1345	47382
1	3005A	6010C	1	05/22/2014 0242	BNW	05/21/2014 1130	47184

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0087**	**J**	**0.010**	**0.0040**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.018**	**J**	**0.025**	**0.0075**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.0030**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000015	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-010**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **05/15/2014**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0230	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Laboratory ID: **PE16078-010**
Description: **TRIP BLANK**
Matrix: **Aqueous**
Date Sampled: **05/15/2014**
Date Received: **05/16/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/22/2014 0230	PMM2		47260

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

SHEALY **Chain of Custody Record**

Number 17814

Client: Burton Environmental	Report to Contact:	Sampler (Printed Name):	Quote No.:
Address: 1101 South Blvd Ste 101	Telephone No. / Fax No. / Email:	Waybill No.:	Page 1 of 1
City: Charlotte; State: NC; Zip Code: 28203	Preservative: 1. Unpres. 2. NaOH/ZnA 3. H2SO4 4. HNO3 5. HCl 6. Na Thio. 7. NaOH		Number of Containers / Bottle (See instructions on back) / Preservative
Project Name: Coastal Co-Burger Staff Landfill			
Project Number: NC	P.O Number:		

PE16078

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: GW	DW	WW	S	Other	Analysis: Appl VOCs	RCRA Metals
MW-1	5-15-14	11:00	G	✓					X	X
MW-2	"	11:30	G	✓					X	X
MW-2D	"	12:00	G	✓					X	X
MW-3	"	14:30	G	✓					X	X
MW-4	"	13:45	G	✓					X	X
MW-4D	"	14:00	G	✓					X	X
MW-5	"	12:30	G	✓					X	X
UPSTREAM	"	13:00	G	✓					X	X
DOWNSTREAM	"	15:00	G	✓					X	X
TRIP BLANK	—	—	G	✓					X	

Turn Around Time Required (Prior lab approval required for expedited TAT): ☐ Standard ☐ Rush (Please Specify) 7 DAY TAT*

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify): NC SOLID WASTE RULES 4 LOW DETECTION LIMITS

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

1. Relinquished by / Sampler	Date 5-16-14	Time 13:30	1. Received by	Date 5-16-14	Time 1330
2. Relinquished by	Date 5-16-14	Time 1450	2. Received by	Date 5-16-14	Time 1450
3. Relinquished by	Date 5-16-14	Time 1638	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory Received by: Kelly W.R.	Date 5-16-14	Time 1638

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Circle): ☐ Yes ☐ No ☐ Ice Pack — Receipt Temp. 1.6 °C — Temp. Blank ☐ Y ☐ N

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Receipt Checklist (SRC)

Client: Buxton Env. Cooler Inspected by/date: KWP 15-16-14 Lot #: PE16078

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 11.5/11.6 °C / / °C / / °C / / °C			
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: +0.1 °C			
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None			
Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☑	No ☐		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____were received incorrectly preserved and were adjusted accordingly in sample receiving with _____(H_2SO_4,HNO_3,HCl,NaOH) using SR # _____.

Sample(s) _____were received with bubbles >6 mm in diameter.

Sample(s)_____were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be >2 by _____ Date: _____

Sample(s) _____ were not received at a pH of >2 and were adjusted accordingly using SR#_____

Sample labels applied by: KWP Verified by:_____ Date: 5-16-14

Comments:

APPENDIX B
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

MW-1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	210	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4BJ	BDL	BDL	BDL	BDL	13J	BDL	BDL	BDL	BDL	BDL	7.7J	28	8.1J	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	**7**	BDL	BDL	BDL	NT	NT	NT	1	BDL	**2.6**	**3.1**	**2.6**	**3.3**	**3.2**	**2.7**	BDL	**2.6**	**2.4**	**2.3**	**2.2**	BDL	**2.5**	**3.4**	**2.5**	**2.7**	**2.4**	0.8J	**2.3**	**2.1**	**2.3**	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13J	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	1.5	BDL	1	1.2	BDL	1.3	1.2	BDL	BDL	0.73J	0.67J	0.69J	0.66J	BDL	1	1.4	0.99J	1.1	BDL	0.42J	0.87J	0.79J	0.79J	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.65J	0.73J	0.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.38J	0.42J	BDL	BDL	0.41J	0.62J	0.5J	0.53J	0.42J	BDL	0.4J	BDL	BDL	20
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	2.8	3.2	2.9	4	3.8	3.3	BDL	3	3	3.1	2.6	BDL	BDL	4.2	3.1	3.9	3.1	3	3.4	3.2	2.9	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	1	0.96J	0.88J	BDL	0.77J	0.64J	0.78J	0.76J	0.8J	0.78J	0.78J	0.72J	0.88J	6
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	1	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	3	BDL	5.5	6.3	6.2	7.1	7.6	6.8	6.7	6.6	6.1	5.6	5.4	5.5	4.8	6.5	6.2	5.5	5.6	3.8	4.4	4.4	4.5	70
Methylene Chloride	BDL	BDL	**4.8 PC**	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	**9**	**8.2**	**8.7**	**8.1**	**7.3**	**6.1**	**7B**	**5.4**	**5.2**	5	BDL	4	0.97J	0.59J	0.64J	0.54J	2	2.4	0.53J	3.2	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	**4.3**	BDL	BDL	**1.2**	BDL	0.91J	0.99J	**1**	0.95J	BDL	0.76J	BDL	**1.2**	0.79J	0.76J	BDL	0.88J	0.76J	0.81J	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	1	1.2	BDL	1.1	1.2	0.96J	0.91J	BDL	0.7J	BDL	0.86J	0.77J	0.81J	0.64J	0.87J	0.83J	0.64J	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	BDL	BDL	BDL	BDL	0.44J	BDL	BDL	0.4J	0.34J	0.27J	0.37J	BDL	0.33J	0.03
Xylenes	27	BDL	BDL	25	21	10	BDL	25	14	NT	NT	NT	53	17	19	BDL	18	19	18	13	18	12	7	10	15	14	18	9.9	9.5	8.4	4.8	13	16	8.7	15	500
RCRA Metals																																				
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	**12**	BDL	**20**	BDL	**12**	**15**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.3BJ	BDL	**12B**	BDL	BDL	4.8J	7.8J	10
Barium	53	62	56	610	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	61	73	30	130	50	61	58	30	27	27	26	24	23J	28	25	26	26	27	31	31	30	26	28	700
Cadmium	BDL	2	BDL	BDL	BDL	BDL	1	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	1.1	BDL	**2.2**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	**38**	**57**	**98**	**100**	**33**	**20**	**11**	**20**	BDL	NT	NT	NT	**20**	**110**	BDL	**260**	**14**	**84**	**88**	BDL	3.6J	7.1	BDL	2.2J	BDL	BDL	2.1J	2.7J	BDL	2.9J	BDL	6.1	6.7	2.4J	BDL	10
Lead	8	**18**	9	9.8	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	13	**16**	BDL	**41**	8.2	12	10	BDL	9	2.2J	BDL	3.9	5.1BJ	2.1J	BDL	BDL	4.2J	BDL	4.4J	BDL	**19**	**19**	3BJ	15
Mercury	BDL	0.2	0.2	**1.2**	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	0.51	0.51	0.29	BDL	0.18	0.24	BDL	0.068J	BDL	BDL	.059J	BDL	BDL	BDL	BDL	.064J	0.21	.094J	0.28	0.28	.037BJ	.038J	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	6.3	BDL	BDL	BDL	2.6J	3.9J	BDL	BDL	3.9BJ	BDL	7J	3.3J	BDL	8.7J	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.95J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52J	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
PC = suspected laboratory contaminant
NT = not tested, due to dry well
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	76	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.5BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	10	BDL	BDL	9	BDL	BDL	BDL	1.1	BDL	2.3	7.6	5.6	1.1	8.8	8.6	3.6	5.9	4.7	7.3	5.4	0.56J	BDL	0.22J	6.1	4.8	4.3	2.8	2.6	0.55J	4.9	0.85J	1
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4J	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	0.58J	0.37J	BDL	BDL	BDL	0.44J	0.48J	BDL	BDL	BDL	BDL	0.58J	BDL	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	0.76J	0.56J	BDL	BDL	BDL	BDL	0.58J	BDL	BDL	BDL	BDL	BDL	BDL	3,000
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.8	4.1	BDL	5	6.8	3.8	5.6	3.2	7.4	3.7	0.41J	BDL	BDL	5.7	6	5.4	3.5	4.1	0.82J	6.2	0.54J	6
1,1-Dichloroethane	14	BDL	BDL	16	32	10	5	56	8.9	15.4	4.6	11	BDL	2.8	7.2	7.4	1	22	12	2.7	BDL	7.6	5.8	6.4	0.5J	BDL	0.15J	5.9	2.9	3.5	1.6	3.2	0.84J	3.8	0.71J	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21J	BDL	BDL	BDL	BDL	BDL	BDL	0.4
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	BDL	BDL	BDL	BDL	BDL	1	BDL	0.22J	0.21J	BDL	BDL	0.29J	BDL	7
cis-1,2-Dichloroethene	480	62	100	210	300	28	91	160	96	20.9	12	170	4	190	250	140	34	310	320	290	260	160	210	150	21	95	10	270	160	200	110	90	38	150	27	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	0.58J	0.49J	0.45J	BDL	BDL	BDL	BDL	BDL	0.3J	0.28J	BDL	BDL	0.48J	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	0.22J	BDL	BDL	BDL	BDL	0.76J	0.32J	0.34J	BDL	BDL	BDL	BDL	BDL	0.6
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.45J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	39	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.6	BDL	46	29	BDL	5	17B	7.9	13	1	BDL	BDL	13	2.8	4.4	0.98J	9.2	BDL	5.8	1.2	5
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	BDL	BDL	BDL	BDL	BDL	BDL	70
Tetrachloroethene	27	5.5	9.8	26	27	22	BDL	75	9	25.8	8.7	13	2	BDL	2.1	3.3	5	20	9.7	1.9	BDL	5.8	3	3.4	0.35J	BDL	BDL	1.8	1.7	1.7	0.38J	1.4	0.23J	1	BDL	0.7
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.095J	BDL	BDL	BDL	BDL	BDL	200
Trichloroethene	14	BDL	BDL	9	18	BDL	BDL	31	9.1	6.6	2.6	8.9	BDL	7.2	4.9	3.6	2.1	16	11	4.3	BDL	6.1	5.5	4.4	0.36J	BDL	BDL	3.7	3.5	3	1.1	2.5	0.78J	2.4	0.43J	3
Vinyl Chloride	20	BDL	16	18	26	10	54	37	84	11.5	5.3	BDL	4.1	BDL	30	21	22	40	17	18	26	11	18	5.1	1.8	33	5.9	23	19	11	22	5.7	3.6	24	6.7	0.03
Xylenes	BDL	BDL	BDL	BDL	12	BDL	BDL	25	BDL	14.3	BDL	5	BDL	BDL	2.9	3.2	BDL	32	16	1	BDL	6.2	3.8	5.6	BDL	BDL	BDL	0.58J	2.3	3.8	1	11	BDL	4.5	BDL	500
RCRA Metals																																				
Arsenic	17	11	7	6	BDL	BDL	BDL	BDL	17	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	8.8	BDL	4.5J	BDL	BDL	BDL	BDL	BDL	BDL	5.3BJ	BDL	14B	BDL	BDL	BDL	5.8J	10
Barium	1,200	3,000	830	560	BDL	BDL	BDL	BDL	BDL	129	113	150	130	170	270	110	130	220	260	270	200	130	110	100	50	74	20J	130	69	46	59	130	48	85	58	700
Cadmium	2	7	BDL	BDL	2	3	4	3	BDL	BDL	2	BDL	BDL	BDL	BDL	11	2.1	BDL	2.1	2.6	3.5	BDL	0.8J	BDL	BDL	1.2J	2.4	BDL	BDL	0.86J	BDL	BDL	BDL	0.81J	BDL	2
Chromium	19	21	13	19	BDL	BDL	BDL	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	9.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8J	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	120	180	52	48	BDL	31	12	19	BDL	BDL	BDL	BDL	8.5	9	11	7.6	4.9	BDL	9.4	12	3.4	BDL	3B	2.8J	5BJ	BDL	BDL	3.1J	13	BDL	8.3J	1.9J	BDL	2.6J	2.5BJ	15
Mercury	BDL	0.2	BDL	0.87	BDL	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6J	BDL	BDL	3J	BDL	3.2J	8.1BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22	BDL	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.98J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.74J	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-2D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																													
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.31J	0.2J	0.21J	BDL	BDL	0.17J	0.58J	BDL	0.32J	0.32J	BDL	0.23J	0.43J	0.32J	70
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	BDL	0.15J	BDL	BDL	BDL	BDL	0.6J	0.26J	0.24J	BDL	0.19J	0.24J	0.23J	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.21J	BDL	BDL	BDL	0.7
RCRA Metals																													
Arsenic	**47**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.6J	10
Barium	**1,600**	BDL	27	26	29	26	26	BDL	29	BDL	BDL	BDL	36	22J	27	16J	20J	12J	22J	13J	31	17J	17J	19J	16J	**48**	38	19J	700
Cadmium	**61**	1	1	BDL	BDL	BDL	BDL	BDL	1.1	**3.5**	BDL	1.2	BDL	BDL	BDL	BDL	0.64J	BDL	BDL	BDL	0.69J	BDL	BDL	BDL	0.73J	BDL	1.4J	BDL	2
Chromium	**44**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	**150**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	BDL	BDL	BDL	5.1	5.8BJ	BDL	BDL	BDL	BDL	3.2J	3.2J	BDL	BDL	3.5J	BDL	15
Mercury	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.061J	BDL	BDL	BDL	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.6BJ	3J	BDL	3.3J	BDL	BDL	BDL	6.2J	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.7J	BDL	BDL	BDL	BDL	0.99J	BDL	BDL	0.41J	BDL	BDL	BDL	BDL	0.4J	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
NA = not applicable
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	**6**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Chlorobenzene	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	**10**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	**39**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.82J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	**19**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03
RCRA Metals																																				
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.1	BDL	**14**	BDL	BDL	BDL	4J	BDL	BDL	BDL	BDL	9.4BJ	BDL	BDL	BDL	5.4J	8.4J	7.3J	10
Barium	180	260	190	260	BDL	BDL	BDL	BDL	BDL	41	65	100	54	90	110	87	44	120	120	180	35	50	49	40	35	110	34	80	40	41	41	73	37	3.2	33	700
Cadmium	BDL	**6**	BDL	BDL	1	1	**4**	**8**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	1.3	BDL	BDL	1.2J	BDL	BDL	**2.5**	BDL	0.61J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	BDL	**10**	**12**	**24**	BDL	BDL	BDL	**14**	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	6.5	BDL	**12**	2.6J	BDL	BDL	BDL	BDL	6.1	BDL	2.8J	3.6J	2.2J	BDL	BDL	BDL	BDL	BDL	10
Lead	**50**	**53**	**53**	**95**	**38**	**42**	12	**63**	BDL	**56**	12	**22**	5.2	14	**17**	13	BDL	**18**	12	**30**	BDL	3	6.5B	6.4	3.8BJ	**21**	BDL	5.4J	11	6.9J	3.5J	BDL	**16**	6.9J	2.9BJ	15
Mercury	BDL	BDL	BDL	0.56	BDL	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.059J	BDL	BDL	BDL	0.067J	BDL	BDL	BDL	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9BJ	2.8J	3.2J	BDL	BDL	BDL	BDL	3.3J	BDL	5.5J	3.1J	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.91J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.98J	BDL	BDL	BDL	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-4
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	130	BDL	BDL	BDL	BDL	BDL	140	BDL	BDL	BDL	BDL	51	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8BJ	BDL	7.3J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	6.2	7.8	5.4	BDL	6	10	BDL	BDL	BDL	7.7	BDL	BDL	BDL	2.9	4.6	1.6	2.6	5.5	5.6	1.4	5.6	6.6	4.4	5.4	0.28J	BDL	1	7.4	2.4	0.52J	0.39J	4.1	0.39J	0.43J	0.89J	1
Chlorobenzene	BDL	BDL	BDL	BDL	6	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	7.4	1.4	3.6	6.8	9.2	1.6	9.7	7.8	8.9	7.4	BDL	BDL	1.4	11	4	1.2	BDL	8.6	1	1.2	2.6	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3	2.3	BDL	BDL	2.9	2.1	BDL	BDL	2.1	1.8J	1.4J	BDL	BDL	BDL	1.3J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	BDL	2	2.5	BDL	13	2.5	2.8	2.4	BDL	BDL	BDL	2.5	1.1	BDL	BDL	1.2	BDL	BDL	BDL	20
1,4-Dichlorobenzene	6.2	BDL	BDL	5.3	10	12	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9	8.9	1.3	3.8	9.5	10	1.2	12	13	12	12	0.56J	BDL	0.9J	15	4.7	0.6J	0.7J	12	0.85J	BDL	1.8	6
1,1-Dichloroethane	56	49	27	32	37	48	14	16	14	20	BDL	BDL	BDL	7.9	12	4	5.6	9.3	8.2	2.4	8.1	8.1	6.5	6.4	BDL	BDL	0.9J	8	2.1	0.66J	0.4J	4.3	0.37J	0.67J	0.77J	6
1,2-Dichloroethane	8.3	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	BDL	BDL	1.1	1	BDL	BDL	0.67J	BDL	BDL	BDL	BDL	BDL	BDL	0.16J	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	28	38	26	20	18	41	5	17	5.5	11.1	BDL	BDL	2.1	4.4	10	3.3	5.2	10	9.6	2.5	9	11	5.8	8.6	0.23J	BDL	0.57J	6.4	1.9	0.37J	0.16J	3.1	0.18J	0.3J	0.4J	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	0.21J	0.26J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	1.2	BDL	BDL	1.5	1.2	1.2	BDL	BDL	BDL	1.5	0.39J	BDL	BDL	0.82J	BDL	BDL	BDL	0.60
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	BDL	BDL	BDL	BDL	1.1	BDL	BDL	0.61J	BDL	BDL	BDL	BDL	BDL	600
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.89BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	1.2	0.55J	0.65J	BDL	BDL	BDL	BDL	0.53J	BDL	BDL	0.43J	BDL	BDL	BDL	600
Trichloroethene	BDL	5.3	BDL	BDL	BDL	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	1.6	2.1	2.9	1.1	BDL	2.4	1	1.5	BDL	BDL	0.2J	BDL	0.27J	BDL	BDL	0.6J	BDL	BDL	BDL	3
Vinyl Chloride	BDL	11	BDL	13	18	22	14	BDL	BDL	7.6	BDL	BDL	3.7	BDL	9.9	6.2	11	18	9.2	6.7	9.6	11	6.2	7.3	1.4	BDL	2.5	6.5	1.8	1	0.52J	3.1	0.6J	0.53J	0.85J	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																				
Arsenic	12	13	5	BDL	BDL	BDL	BDL	BDL	19	8	6	BDL	BDL	16	12	5.3	BDL	12	18	7.4	19	18	19	17	5.5J	BDL	BDL	25	28B	5.5BJ	4.3BJ	39	5.4BJ	7.3J	18	10
Barium	290	250	110	160	BDL	BDL	BDL	BDL	BDL	92	180	BDL	BDL	88	91	39	43	110	150	36	110	45	120	57	7.9J	15J	12J	15J	24J	12J	10J	29	8.7J	12J	10J	700
Cadmium	24	44	22	7.1	13	10	12	5	2	3.6	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	BDL	BDL	2
Chromium	15	10	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	39	30	13	6.3	BDL	86	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.6	BDL	BDL	BDL	8.8	BDL	5.3B	7.8	4.7BJ	BDL	2.1J	BDL	BDL	BDL	4.9J	BDL	BDL	BDL	BDL	15
Mercury	BDL	BDL	BDL	4.2	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	.092J	.086J	BDL	BDL	.084BJ	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	5.6	BDL	BDL	BDL	6.5	BDL	BDL	BDL	BDL	4.5J	17	BDL	3.7J	2.8BJ	BDL	14	BDL	BDL	BDL	5.1J	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	7.3	BDL	0.82BJ	BDL	BDL	BDL	BDL	18	BDL	BDL	23	1.3J	0.41J	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-4D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																													
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	**2.1**	BDL	BDL	**2.4**	**2.4**	**2.2**	**2.2**	**2.2**	**2**	BDL	**2.1**	**1.8**	**1.8**	**2.4**	BDL	**2.2**	**2.4**	**2**	**1.8**	**2.1**	0.29J	**2**	**1.9**	**2.2**	1
Chlorobenzene	BDL	5.6	BDL	BDL	4.1	5.7	4.3	6.7	7.5	7.6	8.5	10	9.6	11	9.2	8.8	8.8	11	9.1	11	12	8.9	9.4	10	10	11	11	14	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.63J	BDL	0.62J	BDL	BDL	BDL	BDL	BDL	BDL	0.48J	BDL	BDL	BDL	0.55J	3,000
1,2-Dichlorobenzene	BDL	BDL	2.4	BDL	2.7	3.4	2	3.9	3.9	3.7	4	4.3	3.9	13	3.6	3.6	3.7	3.9	BDL	3.5	3.5	2.7	2.6	2.6	1.7	2.6	2.5	2.7	20
1,4-Dichlorobenzene	BDL	**8.6**	BDL	BDL	**9**	**7.8**	**7.2**	**9.2**	**9.2**	**9.5**	**10**	**10**	**10**	**11**	**10**	**10**	**11**	**11**	**10**	**12**	**12**	**9.5**	**10**	**10**	**11**	**11**	**11**	**13**	6
1,1-Dichloroethane	**8**	**8.1**	**8.2**	BDL	**6.3**	4.9	1.8	4.5	4.2	4.4	4.2	3.4	3.5	BDL	3.5	3.4	3.5	2	BDL	3	3.9	2.8	2.6	3.4	2.6	2.9	3.6	3.2	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25J	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	BDL	BDL	5.2	BDL	5.2	4	BDL	5.2	6.3	7	8	7.8	8.9	9.2	12	13	13	9	13	12	15	15	13	19	14	15	20	16	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	BDL	BDL	0.24J	BDL	BDL	0.27J	0.28J	0.28J	100
1,2-Dichloropropane	BDL	BDL	BDL	BDL	**1**	**1**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	0.89J	0.82J	0.45J	BDL	0.83J	**1.3**	0.85J	0.74J	0.78J	0.83J	0.74J	BDL	0.65J	0.6
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25J	0.34J	BDL	0.38J	BDL	BDL	BDL	0.33J	BDL	BDL	BDL	BDL	BDL	0.38J	600
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1.1	1.1	0.77J	BDL	0.99J	BDL	1.4	1.2	1.9	1.2	1.3	1.7	0.87J	3
Vinyl Chloride	BDL	BDL	**5.5**	BDL	BDL	**4.7**	BDL	**4.9**	**3.9**	**5**	**6.7**	**3.8**	**5**	**5**	**5.2**	**6.1**	**4.9**	**5.2**	**6.2**	**5.8**	**4.6**	**5.8**	**5.4**	**6.9**	**6**	**7.3**	**9.7**	**8.5**	0.03
RCRA Metals																													
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9J	8.7J	BDL	BDL	4J	5.4BJ	4.5J	**14B**	BDL	6.3BJ	9.4J	9.7J	10
Barium	BDL	BDL	108	97	100	110	110	110	120	120	110	120	120	130	130	120	120	120	140	120	120	120	140	120	140	180	130	150	700
Cadmium	**9**	**7**	**10**	**14**	**17**	**13**	**33**	**30**	**40**	**30**	**30**	**29**	**110**	**51**	**98**	**23**	**47**	**8.8**	**28**	**16**	**14**	**14**	**21**	**15**	**20**	**91**	**44**	**5.2**	2
Chromium	BDL	BDL	7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9J	2.3J	BDL	BDL	2.4J	4.1J	BDL	BDL	BDL	BDL	BDL	2.5J	BDL	BDL	BDL	10
Lead	**22**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	4.8	3.6B	4.7	9.7BJ	3.7J	BDL	BDL	4.7J	BDL	3.6J	3.5J	**30B**	2J	4.1BJ	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.076J	BDL	BDL	BDL	BDL	BDL	10
Selenium	BDL	BDL	10	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	BDL	2.9J	BDL	BDL	BDL	8.3J	3.3J	2.6BJ	BDL	3.9J	3.4BJ	14	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9J	0.76J	2.4J	2.3J	BDL	1.9J	BDL	BDL	BDL	BDL	2.3J	2.3J	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Quality Standard
VOC's = volatile organic compounds
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL

MW-5
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED BIGGERSTAFF LANDFILL
GASTON COUNTY, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*9/00*	*5/01*	*12/01*	*8/02*	*12/02*	*5/03*	*11/03*	*5/04*	*11/04*	*4/05*	*11/05*	*5/06*	*11/06*	*6/07*	*11/07*	*6/08*	*11/08*	*6/09*	*11/09*	*4/10*	*11/10*	*5/11*	*12/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*NCGPS*
Appendix I VOC's																																				
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	110	BDL	NT	BDL	BDL	120	BDL	BDL	28	240	BDL	25	BDL	35	12BJ	210	110	200	9.1J	360	15J	140	25	46	NT	630E	410	1,200	6,000
Benzene	**5.9**	BDL	BDL	BDL	BDL	**7**	BDL	**5**	BDL	NT	**4.3**	BDL	**4.6**	**2.9**	**2.6**	**3.5**	**3.6**	**2.9**	**3.8**	**3.3**	BDL	**2.5**	**1.8**	**2.3**	**3.1**	BDL	**3.9**	**3.3**	**1.5**	**2.4**	**2.4**	NT	**2.9**	**3.7**	**3.8**	1
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1	BDL	BDL	NT	BDL	BDL	BDL	4
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	NT	25	12	73	4,000
Carbon Disulfide	BDL	6.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	700
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.15J	BDL	BDL	NT	BDL	BDL	BDL	0.3
Chlorobenzene	6.8	BDL	8.5	8.3	10	13	13	12	12	NT	13.2	15	21	21	18	25	24	19	34	24	37	18	11	15	19	22	42	30	10	16	16	NT	19	34	33	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.76J	BDL	BDL	BDL	BDL	1.1J	0.64J	BDL	BDL	0.78J	NT	0.68J	1.5J	1.8J	3,000
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	0.86J	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	1.2	1.6	BDL	BDL	1.2	1	BDL	1.3	1.1	8.7	0.88J	0.9J	1.2	1.4	BDL	2	1.3	0.86J	0.87J	0.88J	NT	0.97J	1.2	1.6	20
1,4-Dichlorobenzene	**10**	**8.2**	**12**	**8.4**	**12**	**14**	**10**	BDL	**11**	NT	**9.3**	**11**	**11**	**7.5**	**6.1**	**7.4**	**6.5**	**6.1**	**7.2**	**6.5**	**7.9**	5.3	5	**6.3**	**6.7**	**7.5**	**10**	**7.4**	4.7	5.2	5.3	NT	**6.3**	**7.4**	**8.7**	6
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14J	0.14J	0.15J	BDL	BDL	0.16J	BDL	0.16J	0.17J	BDL	NT	0.19J	BDL	BDL	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	9	BDL	6	BDL	NT	2.7	2.3	BDL	BDL	1.2	BDL	1.2	1	BDL	1.1	BDL	1.3	1.7	1.8	1.8	BDL	0.97J	1.2	0.92J	1.2	0.8J	NT	0.82J	0.8J	0.5J	70
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	NT	BDL	BDL	BDL	100
cis-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.11J	BDL	BDL	NT	BDL	BDL	BDL	0.4
trans-1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13J	BDL	BDL	NT	BDL	BDL	BDL	0.4
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.9J	BDL	BDL	NT	1.8J	BDL	0.83J	280
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77J	BDL	BDL	NT	BDL	BDL	1.2J	560
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.84BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	5
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12J	BDL	BDL	NT	BDL	BDL	BDL	70
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	**4**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38J	BDL	BDL	NT	BDL	BDL	BDL	0.7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	**940**	8.5	BDL	BDL	BDL	BDL	1.1	BDL	6	0.52J	0.34J	0.8J	28	63	23	BDL	0.74J	0.53J	4.9	NT	7.5	71	140	600
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	BDL	BDL	NT	BDL	BDL	BDL	200
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.33J	BDL	0.17J	BDL	BDL	0.22J	BDL	BDL	0.29J	BDL	NT	BDL	BDL	BDL	0.03
Xylenes	26	BDL	BDL	BDL	7	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.47J	BDL	BDL	BDL	0.36J	BDL	BDL	NT	BDL	BDL	BDL	500
RCRA Metals																																				
Arsenic	BDL	BDL	6	BDL	**15**	**14**	BDL	BDL	BDL	NT	NT	BDL	**25**	7.2	6.7	BDL	BDL	BDL	BDL	6.5	BDL	BDL	5.5	NT	**15**	6.1J	5.1J	5.4J	8.8BJ	6.5J	**14B**	NT	**14B**	8.3J	BDL	10
Barium	**730**	**1,500**	**1,300**	**1,600**	**720**	**1,500**	BDL	BDL	BDL	NT	NT	250	370	260	220	250	320	180	250	350	180	210	170	NT	260	220	260	160	140	130	160	NT	180	150	260	700
Cadmium	**7**	**22**	**18**	**24**	**12**	**15**	2	**7**	BDL	NT	NT	**2.1**	**3.8**	1.8	**2.6**	**6.6**	**2.4**	1.5	**2.4**	**7.5**	1.5J	**3.5**	**2.2**	NT	**6.1**	**3**	0.95J	**2.2**	1.4	1.6J	1.5J	NT	**2.2**	BDL	0.89J	2
Chromium	BDL	**18**	**25**	**22**	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	3.5J	BDL	BDL	BDL	BDL	NT	**24B**	BDL	BDL	10
Lead	**43**	**130**	**120**	**140**	**85**	**86**	BDL	**29**	BDL	NT	NT	14	**47**	**23**	12	9.8	13	3.6	BDL	**22**	2.3J	BDL	6.1B	NT	7.7BJ	4J	BDL	BDL	5.1J	BDL	2.3J	NT	BDL	BDL	2BJ	15
Mercury	**2.4**	0.3	**2.2**	**4.9**	BDL	0.4	0.2	0.6	BDL	NT	NT	BDL	0.5	BDL	0.36	BDL	BDL	BDL	0.13	0.31	0.1	0.23	0.13	NT	**1.2**	0.59	0.24	0.18	0.20	0.35	0.38	NT	**0.55**	0.38B	.059J	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9	NT	3.4J	4.7J	2.7BJ	BDL	11	BDL	BDL	NT	3.1J	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	BDL	NT	0.66J	BDL	BDL	BDL	2.3J	BDL	BDL	NT	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
VOC's = volatile organic compounds
NT = not tested, due to dry or limited water conditions
bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL; E = quantitation of compound exceeded the calibration range