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 Auten Landfill	Monteray Park Drive Gastonia, NC	36-03	.0500	May 12, 2015

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

9-22-15 Affix NC Licensed Professional Geologist Seal

Signature Date

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN 9-22-15

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 2015
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA
PERMIT NO.: 36-03

Prepared for:

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

June 4, 2015

Prepared by:

Ross Klingman, P.G.
Senior Geologist

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FIRST SEMI-ANNUAL 2015
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA
PERMIT NO.: 36-03

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FIRST SEMI-ANNUAL 2015
GROUNDWATER AND SURFACE WATER MONITORING EVENT
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA
PERMIT NO.: 36-03

1.0 INTRODUCTION

Buxton Environmental, Inc. respectfully submits the methods and results of the first semi-annual 2015 groundwater and surface water monitoring activities conducted at the Gaston County - Closed Auten Landfill located along Monterey Park Drive in Gastonia, 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; the NCDWM guidelines dated April 2008 for groundwater and surface water sampling; and the NCDWM memorandum dated November 5, 2014 concerning groundwater, surface water and electronic document submittal. 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 operated from approximately 1963 until it closed in 1985.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at five shallow monitor wells MW-1 through MW-5. Groundwater samples have been analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples historically collected at the site indicated several VOC's and metals above the 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 Auten Closed Landfill* report prepared by Resolve Environmental Services, P.A., one deep monitor well MW-5A and one background monitor well MW-6 were installed. Monitor well MW-5A was advanced adjacent to monitor well MW-5 to define the vertical extent of affected groundwater. Monitor well MW-6 was installed as a background well and was placed immediately adjacent to the former on-site landfill scale and maintenance garage along Monterey Park Drive. Groundwater samples collected at MW-5A did not indicate target constituents above the NCGPS's. Monitor well MW-6 indicated the presence of 180 micrograms per liter (ug/l) arsenic, 4,600 ug/l barium, 16 ug/l cadmium, 340 ug/l chromium, 240 ug/l lead, and 18 ug/l tetrachloroethene, which were above the NCGPS's. One water supply well was identified approximately 700 feet upgradient of the former landfill.

In response to the March 2001 report, the NCDWM requested in a November 8, 2001 letter that additional assessment activities be conducted in the area of monitor well MW-6 to determine the source and extent of affected groundwater.

Based on historical assessment activities, monitor well MW-6 is located hydrogeologically upgradient of the known on-site waste boundary and is immediately downgradient of a former off-site "stump dump". The "stump dump" was not owned or operated by Gaston County. Buxton Environmental, Inc. submitted a *Work Plan to Assess Affected Groundwater Detected at Monitor Well MW-6* to the NCDWM on February 8, 2002. The NCDWM approved the plan, with minor revisions outlined in their February 27, 2002 letter.

From May 12 through 14, 2003, three shallow temporary monitor wells TW-1, TW-2 and TW-3 were installed along the property boundary immediately upgradient of monitor well MW-6 and downgradient of the off-site "stump-dump. The findings of this assessment are presented in a June 24, 2003 *Groundwater Delineation and First Semi-Annual 2003 Groundwater and Surface Water Monitoring Event* report prepared by Buxton Environmental, Inc. Groundwater sample TW-2 indicated the presence of tetrachloroethene, and groundwater sample TW-3 indicated tetrachloroethene and trichloroethene above the NCGPS's. Groundwater sample TW-1 did not indicate the presence of target constituents above the NCGPS's. Based on groundwater analytical data and shallow groundwater flow direction, the former off-site "stump dump" area located upgradient and the immediate south of the site appears to be a potential source for VOC

affected groundwater historically detected at monitor well MW-6. Several discarded drums and car part debris associated with the "stump dump" were also identified immediately upgradient of temporary monitor wells TW-2 and TW-3 during the May 16, 2004 sampling event.

3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

On May 12, 2015, Buxton Environmental, Inc. conducted the first semi-annual 2015 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at six shallow monitor wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6, one deep monitor well MW-5A, and three temporary wells TW-1, TW-2 and TW-3. Surface water samples, Upstream and Downstream, were also collected during these activities.

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 Horiba D-54 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. Groundwater sample TW-1 was unable to be analyzed for RCRA metals, due to limited water conditions. For quality control purposes, one trip blank prepared by the laboratory was analyzed for Appendix I VOC's. 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 latch on the stand-up cover at monitor well MW-1 has been vandalized and needs to be repaired. The stand-up cover at MW-5 is leaning at an approximate 80 degree angle (appears to have been recently hit by an off-road vehicle) and needs to be repaired. The remaining 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 during the first semi-annual 2015 monitoring event, the general shallow groundwater flow on the western side of the site is to the north northwest toward Long Creek and is to the east and northeast toward Long Creek and Burton Branch Creek on the eastern side of the site. Shallow groundwater flows to the north northwest and east from the former off-site "stump dump" area toward the Auten Landfill. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.02 feet per feet (ft/ft) was observed between shallow monitor wells TW-3 and MW-2. An upward vertical hydraulic gradient of 0.01 ft/ft was observed between nested monitor wells MW-5 and MW-5A. Upward vertical hydraulic gradients are generally associated with groundwater discharge zones.

5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS

The groundwater and surface water analytical results for the first semi-annual 2015 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-2, MW-3, MW-5, MW-6, and temporary monitor wells TW-2 and TW-3 indicated the presence of target constituents above the NCGPS's, which are summarized below. Groundwater sample MW-2 indicated the presence of 3.1 ug/l benzene, 18 ug/l 1,4-dichlorobenzene and 12 ug/l arsenic. Groundwater sample MW-3 indicated the presence of 1.5 ug/l benzene. Groundwater sample MW-5 indicated the presence of 3.8 ug/l benzene and 25 ug/l 1,4-dichlorobenzene. Groundwater sample MW-6 indicated the presence of 1.9 ug/l tetrachloroethene. Groundwater sample TW-2 indicated the presence of 1.1 ug/l tetrachloroethene and 22 ug/l chromium. Groundwater sample TW-3 indicated the presence of 1.9 ug/l tetrachloroethene, 12 ug/l arsenic, 2.7 ug/l cadmium, 29 ug/l chromium and 51 ug/l lead. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

Surface water samples Upstream and Downstream did not indicate the presence of target constituents above established North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Duharts Creek (Class WS-V water) or EPA National Criteria standards (utilized by North Carolina Division of Water Quality as default standards for non listed parameters) (NCSWWS's).

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

6.0 CONCLUSIONS

On May 12, 2015, Buxton Environmental, Inc. conducted the first semi-annual 2015 groundwater and surface water monitoring activities at the Gaston County - Closed Auten Landfill located in Gastonia, North Carolina. A summary of the findings of this investigation is provided below.

- The general shallow groundwater flow direction on the western side of the site is to the north northwest toward Long Creek and is to the east and northeast toward Long Creek and Burton Branch Creek on the eastern side of the site. Shallow groundwater flows to the north northwest and east from the former off-site "stump dump" area toward the Auten Landfill.

- Groundwater samples collected at monitor wells MW-2, MW-3, MW-5 and MW-6, and temporary monitor wells TW-2 and TW-3 indicated the presence of target constituents above the NCGPS's.

- Surface water samples Upstream and Downstream did not indicate target constituents 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 Auten Landfill. The next sampling event is anticipated to be conducted in October 2015.

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

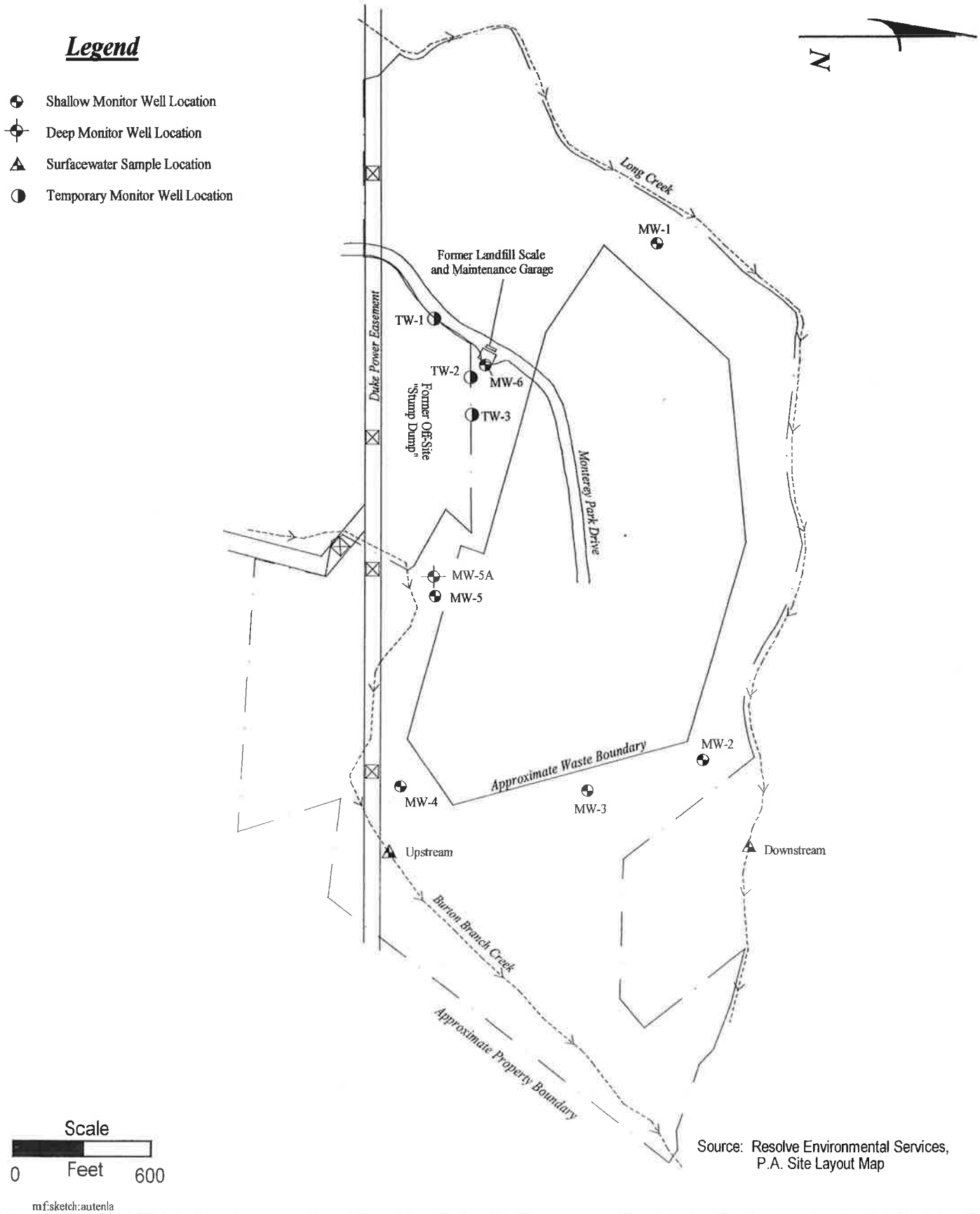
FIGURES

Scale

0 Feet 2,000

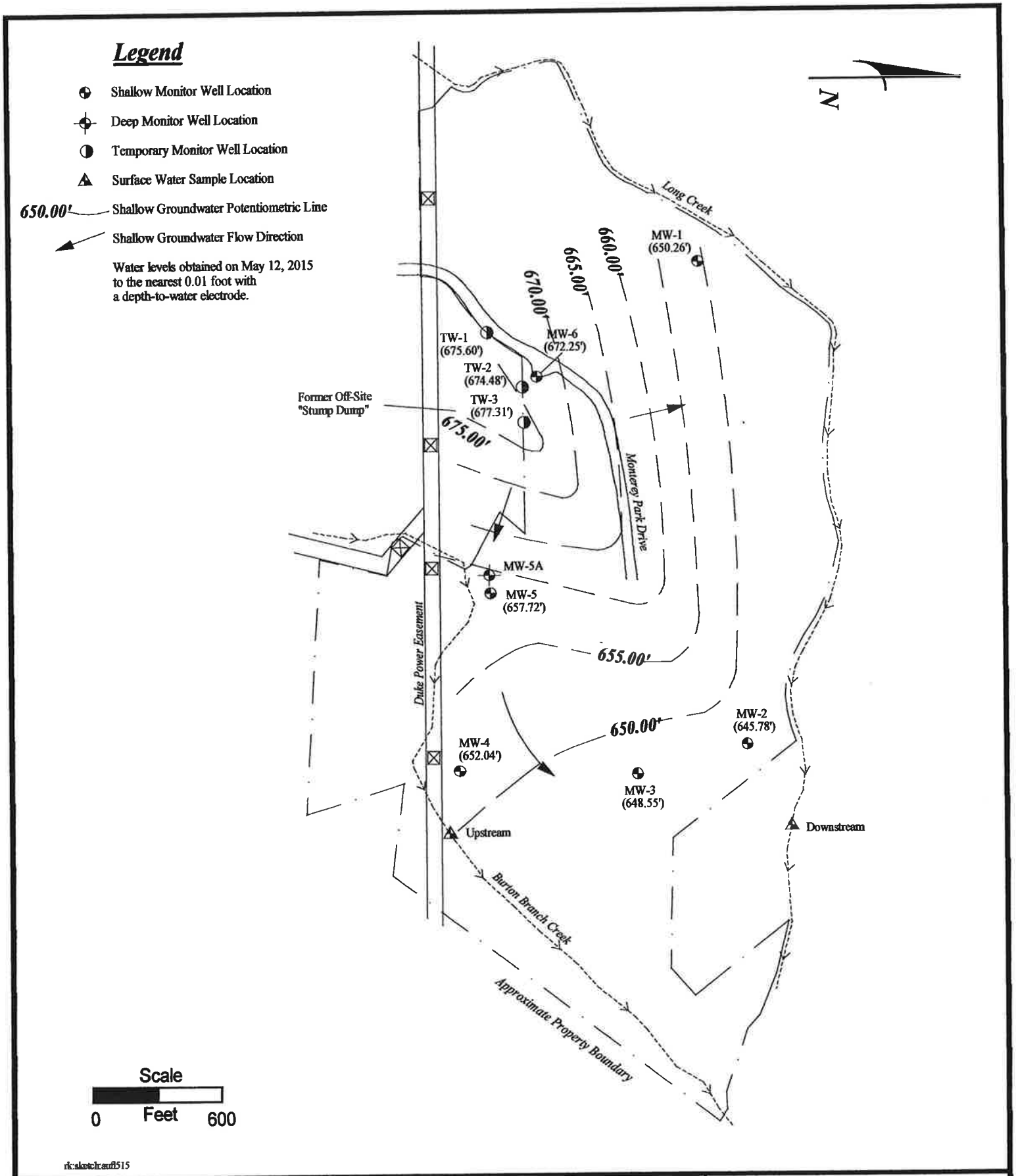
Source: United States Geological Survey, 1993 Gastonia North, 1993 Mount Holly, North Carolina Quadrangles

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

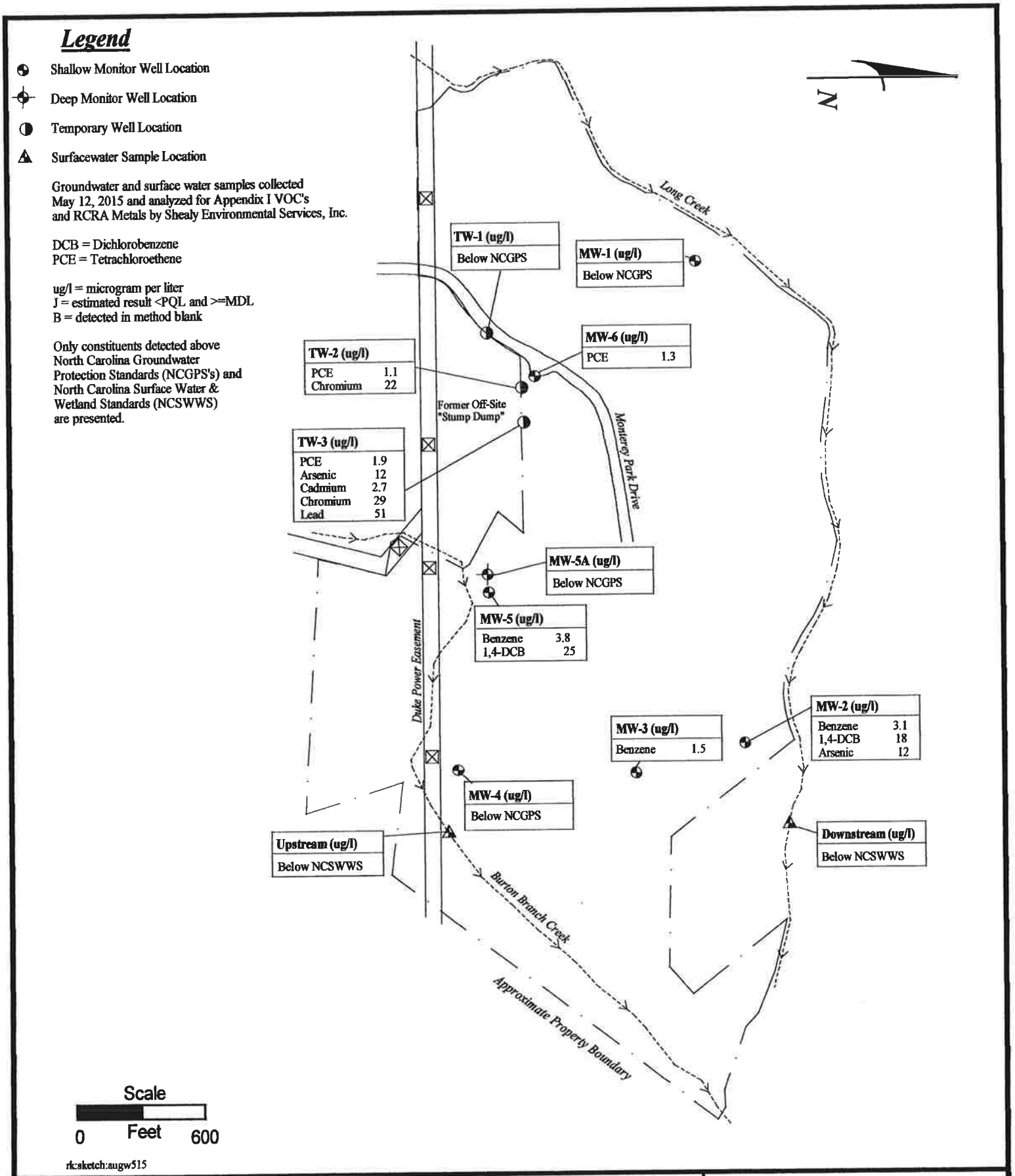


Source: Resolve Environmental Services, P.A. Site Layout Map

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



Gaston County Closed Auten Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 3. Shallow Groundwater Flow First Semi-Annual 2015



Gaston County Closed Auten Landfill Gaston County, North Carolina	Buxton Environmental, Inc.	Figure 4. Groundwater Analytical Results First Semi-Annual 2015

TABLES

TABLE 1
GROUNDWATER GAUGING DATA
GASTON COUNTY - CLOSED AUTEN LANDFILL (PERMIT NO.: 36-03)
GASTONIA, NORTH CAROLINA
MAY 12, 2015

Well ID	*TD BTOC (ft)*	*TOC Elevation (ft)*	*DTW BTOC (ft)*	*DTW Elevation (ft)*
MW-1	17.50	657.71	7.45	650.26
MW-2	27.80	660.80	15.02	645.78
MW-3	29.50	668.87	20.32	648.55
MW-4	23.50	662.15	10.11	652.04
MW-5	21.50	667.67	9.95	657.72
MW-5A	54.00	668.32	10.20	658.12
MW-6	46.00	700.54	27.43	673.11
TW-1	37.50	708.75	33.15	675.60
TW-2	40.25	709.58	35.10	674.48
TW-3	45.50	715.82	38.51	677.31

Notes:
Depth to water measurements collected on May 12, 2015 to nearest 0.01 foot 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 and MW-4 are relative to mean sea level and were surveyed by Robinson & Sawyer, Inc. on August 24, 1994.
TOC elevations at MW-5A and MW-6 were determined by Resolve Environmental Services on May 3, 2001 relative to existing well elevations.
TOC elevations at TW-2 and TW-3 were determined by Buxton Environmental, Inc. on May 14, 2003 relative to TOC at MW-6.
TOC elevations at MW-5 and TW-1 were determined by Buxton Environmental, Inc. on December 4, 2003 following repairs to these wells.

TABLE 2
FIELD PARAMETER DATA
GASTON COUNTY - CLOSED AUTEN LANDFILL (PERMIT NO.: 36-03)
GASTONIA, NORTH CAROLINA
MAY 12, 2015

Sample ID	***Field Parameters***		
	pH (standard units)	***K (uS)***	***T (fahrenheit)***
MW-1	6.22	271	60.8
MW-2	6.54	2,200	65.3
MW-3	6.55	1,202	64.2
MW-4	6.85	722	64.6
MW-5	6.46	908	61.9
MW-5A	6.34	520	62.4
MW-6	6.14	311	62.9
TW-1	--	--	--
TW-2	6.60	156	62.6
TW-3	4.46	225	63.6
Upstream	7.36	225	70.9
Downstream	7.04	142	70.3

Notes:
Field parameters collected on May 12, 2015 with calibrated Horiba D-54 meter
uS = microsiemens per centimeter
K = conductivity; T = temperature

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL (PERMIT NO.: 36-03)
GASTONIA, NORTH CAROLINA
MAY 12, 2015

Sample ID	*SWSL*	*MW-1*	*MW-2*	*MW-3*	*MW-4*	*MW-5*	*MW-5A*	*MW-6*	*TW-1*	*TW-2*	*TW-3*	*NCGPS*
Appendix I VOC's												
Acetone	100	BDL	7.8J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	1	BDL	**3.1**	**1.5**	BDL	**3.8**	BDL	BDL	BDL	BDL	BDL	1
Chlorobenzene	3	BDL	11	1.2	0.72J	13	BDL	BDL	BDL	BDL	BDL	50
Chloroethane	10	BDL	BDL	BDL	BDL	0.8J	BDL	BDL	BDL	BDL	BDL	3,000
Chloroform	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	0.46J	70
1,2-Dichlorobenzene	5	BDL	1.6	BDL	BDL	4.5	BDL	BDL	BDL	BDL	BDL	20
1,4-Dichlorobenzene	1	BDL	**18**	0.46J	0.59J	**25**	BDL	BDL	BDL	BDL	BDL	6
1,1-Dichloroethane	5	BDL	0.33J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	5	BDL	1.7	BDL	BDL	0.65J	BDL	0.19J	BDL	BDL	BDL	70
Tetrachloroethene	1	BDL	BDL	BDL	BDL	BDL	BDL	**1.9**	BDL	**1.1**	**1.9**	0.7
Toluene	1	BDL	0.47J	BDL	BDL	0.45J	BDL	BDL	BDL	BDL	BDL	600
Vinyl Chloride	1	BDL	0.48J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03
Xylenes	5	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals												
Arsenic	10	2.6J	**12**	5.1J	BDL	2.2J	BDL	BDL	NT	5.3J	**12**	10
Barium	100	120	590	67	130	210	150	47	NT	350	510	700
Cadmium	1	0.7J	1J	1.3J	1.4J	0.9J	BDL	BDL	NT	BDL	**2.7**	2
Chromium	10	1.1J	0.74J	0.95J	**8.8**	0.95J	BDL	BDL	NT	**22**	**29**	10
Lead	10	7.6J	BDL	BDL	7.7J	BDL	BDL	BDL	NT	10	**51**	15
Silver	10	BDL	BDL	3.2J	BDL	BDL	BDL	BDL	NT	BDL	BDL	20

Notes:
Groundwater samples collected on May 12, 2015 and analyzed for above parameters by Shealy Environmental Services, Inc. in W. Columbia, SC.
BDL = below detection limit
NCGPS = North Carolina Groundwater Protection Standard
SWSL = Solid Waste Section Limit
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 (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)

TABLE 4
SURFACE WATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL (PERMIT NO.: 36-03)
GASTONIA, NORTH CAROLINA
MAY 12, 2015

Sample ID	***SWSL***	***Upstream***	***Downstream***	***NCSWWS***
Appendix I VOC's	NA	BDL	BDL	NA
RCRA Metals				
Barium	100	57	30	1,000
Chromium	10	13	9.7	50

Notes:
Surface water samples collected May 12, 2015 and analyzed for above parameters 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 and Burton Branch Creek (Class C Water) or are EPA National Criteria.
SWSL = Solid Waste Section Limit
VOC's = volatile organic compounds
data presented in micrograms per liter (ug/l)
J = estimated result <PQL and >=MDL
B = detected in method blank
NA = not applicable
bold and shade denotes above established NCSWWS (J-flagged data not considered since estimated)

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 - Auten Landfill**

Project Number: **NC**

Lot Number: **QE14074**

Date Completed: **05/21/2015**

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: QE14074

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: QE14074

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	05/12/2015 1130	05/14/2015
002	MW-2	Aqueous	05/12/2015 1200	05/14/2015
003	MW-3	Aqueous	05/12/2015 1230	05/14/2015
004	MW-4	Aqueous	05/12/2015 1300	05/14/2015
005	MW-5	Aqueous	05/12/2015 1330	05/14/2015
006	MW-5A	Aqueous	05/12/2015 1400	05/14/2015
007	MW-6	Aqueous	05/12/2015 1100	05/14/2015
008	TW-1	Aqueous	05/12/2015 0930	05/14/2015
009	TW-2	Aqueous	05/12/2015 1000	05/14/2015
010	TW-3	Aqueous	05/12/2015 1030	05/14/2015
011	UPSTREAM	Aqueous	05/12/2015 1500	05/14/2015
012	DOWNSTREAM	Aqueous	05/12/2015 1145	05/14/2015
013	TRIP BLANK	Aqueous	05/12/2015	05/14/2015

(13 samples)

Executive Summary
Buxton Environmental
Lot Number: QE14074

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Arsenic	6010C	0.0026	J	mg/L	8
001	MW-1	Aqueous	Barium	6010C	0.12		mg/L	8
001	MW-1	Aqueous	Cadmium	6010C	0.00070	J	mg/L	8
001	MW-1	Aqueous	Chromium	6010C	0.0011	J	mg/L	8
001	MW-1	Aqueous	Lead	6010C	0.0076	J	mg/L	8
002	MW-2	Aqueous	Acetone	8260B	7.8	J	ug/L	9
002	MW-2	Aqueous	Benzene	8260B	3.1		ug/L	9
002	MW-2	Aqueous	Chlorobenzene	8260B	11		ug/L	9
002	MW-2	Aqueous	1,2-Dichlorobenzene	8260B	1.6		ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	18		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	0.33	J	ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	1.7		ug/L	9
002	MW-2	Aqueous	Toluene	8260B	0.47	J	ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	0.48	J	ug/L	10
002	MW-2	Aqueous	Xylenes (total)	8260B	1.1		ug/L	10
002	MW-2	Aqueous	Arsenic	6010C	0.012		mg/L	11
002	MW-2	Aqueous	Barium	6010C	0.59		mg/L	11
002	MW-2	Aqueous	Cadmium	6010C	0.0010	J	mg/L	11
002	MW-2	Aqueous	Chromium	6010C	0.00074	J	mg/L	11
003	MW-3	Aqueous	Benzene	8260B	1.5		ug/L	12
003	MW-3	Aqueous	Chlorobenzene	8260B	1.2		ug/L	12
003	MW-3	Aqueous	1,4-Dichlorobenzene	8260B	0.46	J	ug/L	12
003	MW-3	Aqueous	Arsenic	6010C	0.0051	J	mg/L	14
003	MW-3	Aqueous	Barium	6010C	0.067		mg/L	14
003	MW-3	Aqueous	Cadmium	6010C	0.0013	J	mg/L	14
003	MW-3	Aqueous	Chromium	6010C	0.00095	J	mg/L	14
003	MW-3	Aqueous	Silver	6010C	0.0032	J	mg/L	14
004	MW-4	Aqueous	Chlorobenzene	8260B	0.72	J	ug/L	15
004	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	0.59	J	ug/L	15
004	MW-4	Aqueous	Barium	6010C	0.13		mg/L	17
004	MW-4	Aqueous	Cadmium	6010C	0.0014	J	mg/L	17
004	MW-4	Aqueous	Chromium	6010C	0.0088		mg/L	17
004	MW-4	Aqueous	Lead	6010C	0.0077	J	mg/L	17
005	MW-5	Aqueous	Benzene	8260B	3.8		ug/L	18
005	MW-5	Aqueous	Chlorobenzene	8260B	13		ug/L	18
005	MW-5	Aqueous	Chloroethane	8260B	0.80	J	ug/L	18
005	MW-5	Aqueous	1,2-Dichlorobenzene	8260B	4.5		ug/L	18
005	MW-5	Aqueous	1,4-Dichlorobenzene	8260B	25		ug/L	18
005	MW-5	Aqueous	cis-1,2-Dichloroethene	8260B	0.65	J	ug/L	18
005	MW-5	Aqueous	Toluene	8260B	0.45	J	ug/L	18
005	MW-5	Aqueous	Arsenic	6010C	0.0022	J	mg/L	20
005	MW-5	Aqueous	Barium	6010C	0.21		mg/L	20
005	MW-5	Aqueous	Cadmium	6010C	0.00090	J	mg/L	20
005	MW-5	Aqueous	Chromium	6010C	0.00095	J	mg/L	20
006	MW-5A	Aqueous	Barium	6010C	0.15		mg/L	23

Executive Summary (Continued)

Lot Number: QE14074

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	0.19	J	ug/L	24
007	MW-6	Aqueous	Tetrachloroethene	8260B	1.9		ug/L	24
007	MW-6	Aqueous	Barium	6010C	0.047		mg/L	26
009	TW-2	Aqueous	Chloroform	8260B	0.55	J	ug/L	29
009	TW-2	Aqueous	Tetrachloroethene	8260B	1.1		ug/L	29
009	TW-2	Aqueous	Arsenic	6010C	0.0053	J	mg/L	31
009	TW-2	Aqueous	Barium	6010C	0.35		mg/L	31
009	TW-2	Aqueous	Chromium	6010C	0.022		mg/L	31
009	TW-2	Aqueous	Lead	6010C	0.010		mg/L	31
010	TW-3	Aqueous	Chloroform	8260B	0.46	J	ug/L	32
010	TW-3	Aqueous	Tetrachloroethene	8260B	1.9		ug/L	32
010	TW-3	Aqueous	Arsenic	6010C	0.012		mg/L	34
010	TW-3	Aqueous	Barium	6010C	0.51		mg/L	34
010	TW-3	Aqueous	Cadmium	6010C	0.0027		mg/L	34
010	TW-3	Aqueous	Chromium	6010C	0.029		mg/L	34
010	TW-3	Aqueous	Lead	6010C	0.051		mg/L	34
011	UPSTREAM	Aqueous	Barium	6010C	0.057		mg/L	37
011	UPSTREAM	Aqueous	Chromium	6010C	0.013		mg/L	37
012	DOWNSTREAM	Aqueous	Barium	6010C	0.030		mg/L	40
012	DOWNSTREAM	Aqueous	Chromium	6010C	0.0097		mg/L	40

(65 detections)

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **05/12/2015 1130**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1740	PAP		75256

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	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**
Description: **MW-1**
Date Sampled: **05/12/2015 1130**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1740	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
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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"

Client: **Buxton Environmental**
Description: **MW-1**
Date Sampled: **05/12/2015 1130**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1717	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2236	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0026**	**J**	**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.12**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.00070**	**J**	**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.0011**	**J**	**0.0050**	**0.00072**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.0076**	**J**	**0.010**	**0.0047**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	mg/L	1

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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**
Description: **MW-2**
Date Sampled: **05/12/2015 1200**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1544	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**7.8**	**J**	**20**	**6.7**	**ug/L**	**1**
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	**71-43-2**	**8260B**	**3.1**		**1.0**	**0.21**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**11**		**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	0.070	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**	**1.6**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**18**		**1.0**	**0.33**	**ug/L**	**1**
1,1-Dichloroethane	**75-34-3**	**8260B**	**0.33**	**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**	**1.7**		**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	0.19	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**	**0.47**	**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	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	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**
Description: **MW-2**
Date Sampled: **05/12/2015 1200**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1544	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	ug/L	1
Vinyl chloride	**75-01-4**	**8260B**	**0.48**	**J**	**1.0**	**0.054**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1.1**		**1.0**	**0.33**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		101	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**
Description: **MW-2**
Date Sampled: **05/12/2015 1200**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1719	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2240	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.012**		**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.59**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0010**	**J**	**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.00074**	**J**	**0.0050**	**0.00072**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	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**
Description: **MW-3**
Date Sampled: **05/12/2015 1230**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1608	PAP		75256

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**	**1.5**		**1.0**	**0.21**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**1.2**		**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	0.070	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**	**0.46**	**J**	**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	0.19	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	0.74	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**
Description: **MW-3**
Date Sampled: **05/12/2015 1230**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1608	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		94	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	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**
Description: **MW-3**
Date Sampled: **05/12/2015 1230**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1721	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2245	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0051**	**J**	**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.067**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0013**	**J**	**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.00095**	**J**	**0.0050**	**0.00072**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	**7440-22-4**	**6010C**	**0.0032**	**J**	**0.0050**	**0.0021**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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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**
Description: **MW-4**
Date Sampled: **05/12/2015 1300**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1631	PAP		75256

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**0.72**	**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	0.070	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**	**0.59**	**J**	**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	0.19	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	0.74	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
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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**
Description: **MW-4**
Date Sampled: **05/12/2015 1300**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1631	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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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"

Client: **Buxton Environmental**
Description: **MW-4**
Date Sampled: **05/12/2015 1300**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1723	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2250	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.13**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0014**	**J**	**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.0088**		**0.0050**	**0.00072**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.0077**	**J**	**0.010**	**0.0047**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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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**
Description: **MW-5**
Date Sampled: **05/12/2015 1330**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1654	PAP		75256

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**	**3.8**		**1.0**	**0.21**	**ug/L**	**1**
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**13**		**1.0**	**0.33**	**ug/L**	**1**
Chloroethane	**75-00-3**	**8260B**	**0.80**	**J**	**2.0**	**0.47**	**ug/L**	**1**
Chloroform	67-66-3	8260B	ND		1.0	0.070	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**	**4.5**		**1.0**	**0.33**	**ug/L**	**1**
1,4-Dichlorobenzene	**106-46-7**	**8260B**	**25**		**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**	**0.65**	**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	0.19	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**	**0.45**	**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	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.74	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
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J = Estimated result < PQL and ≥ MDL
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P = The RPD between two GC columns exceeds 40%
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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**
Description: **MW-5**
Date Sampled: **05/12/2015 1330**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1654	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		98	70-130
Toluene-d8		96	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**
Description: **MW-5**
Date Sampled: **05/12/2015 1330**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1724	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2254	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0022**	**J**	**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.21**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.00090**	**J**	**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.00095**	**J**	**0.0050**	**0.00072**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	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**
Description: **MW-5A**
Date Sampled: **05/12/2015 1400**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1717	PAP		75256

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	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**
Description: **MW-5A**
Date Sampled: **05/12/2015 1400**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/19/2015 1717	PAP		75256

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		94	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		98	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**
Description: **MW-5A**
Date Sampled: **05/12/2015 1400**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1726	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2259	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.15**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00054	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.00072	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
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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"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **MW-6**
Date Sampled: **05/12/2015 1100**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2114	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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**	**0.19**	**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	0.19	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**	**1.9**		**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	0.74	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
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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**
Description: **MW-6**
Date Sampled: **05/12/2015 1100**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2114	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		97	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	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**
Description: **MW-6**
Date Sampled: **05/12/2015 1100**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1728	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2312	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.047**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00054	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.00072	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	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**
Description: **TW-1**
Date Sampled: **05/12/2015 0930**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2137	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	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**
Description: **TW-1**
Date Sampled: **05/12/2015 0930**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2137	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		94	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	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"

Volatile Organic Compounds by GC/MS

Client: **Buxton Environmental**
Description: **TW-2**
Date Sampled: **05/12/2015 1000**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2200	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**0.55**	**J**	**1.0**	**0.070**	**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	0.19	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**	**1.1**		**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	0.74	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**
Description: **TW-2**
Date Sampled: **05/12/2015 1000**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2200	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		99	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**
Description: **TW-2**
Date Sampled: **05/12/2015 1000**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1730	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2316	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.0053**	**J**	**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.35**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00054	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.022**		**0.0050**	**0.00072**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.010**		**0.010**	**0.0047**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
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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**
Description: **TW-3**
Date Sampled: **05/12/2015 1030**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2223	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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**	**0.46**	**J**	**1.0**	**0.070**	**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	0.19	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**	**1.9**		**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	0.74	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**
Description: **TW-3**
Date Sampled: **05/12/2015 1030**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2223	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		98	70-130
Toluene-d8		96	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**
Description: **TW-3**
Date Sampled: **05/12/2015 1030**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1732	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2321	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	**7440-38-2**	**6010C**	**0.012**		**0.010**	**0.0022**	**mg/L**	**1**
Barium	**7440-39-3**	**6010C**	**0.51**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.0027**		**0.0020**	**0.00054**	**mg/L**	**1**
Chromium	**7440-47-3**	**6010C**	**0.029**		**0.0050**	**0.00072**	**mg/L**	**1**
Lead	**7439-92-1**	**6010C**	**0.051**		**0.010**	**0.0047**	**mg/L**	**1**
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	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**
Description: **UPSTREAM**
Date Sampled: **05/12/2015 1500**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2246	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	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**
Description: **UPSTREAM**
Date Sampled: **05/12/2015 1500**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2246	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		100	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
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E = Quantitation of compound exceeded the calibration range
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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**
Description: **UPSTREAM**
Date Sampled: **05/12/2015 1500**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1734	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2325	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.057**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00054	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.013**		**0.0050**	**0.00072**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	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**
Description: **DOWNSTREAM**
Date Sampled: **05/12/2015 1145**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2309	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	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**
Description: **DOWNSTREAM**
Date Sampled: **05/12/2015 1145**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2309	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		98	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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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"

Client: **Buxton Environmental**
Description: **DOWNSTREAM**
Date Sampled: **05/12/2015 1145**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	05/15/2015 1739	COH	05/15/2015 1229	75023
1	3005A	6010C	1	05/15/2015 2329	ECS	05/15/2015 0903	74979

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0022	mg/L	1
Barium	**7440-39-3**	**6010C**	**0.030**		**0.025**	**0.0019**	**mg/L**	**1**
Cadmium	7440-43-9	6010C	ND		0.0020	0.00054	mg/L	1
Chromium	**7440-47-3**	**6010C**	**0.0097**		**0.0050**	**0.00072**	**mg/L**	**1**
Lead	7439-92-1	6010C	ND		0.010	0.0047	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000028	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0085	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.0021	mg/L	1

PQL = Practical quantitation limit
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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**
Description: **TRIP BLANK**
Date Sampled: **05/12/2015**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-013**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2051	PMM2		75471

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	0.21	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.45	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.23	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	0.070	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	0.19	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	0.74	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

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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**
Description: **TRIP BLANK**
Date Sampled: **05/12/2015**
Date Received: **05/14/2015**

Laboratory ID: **QE14074-013**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/20/2015 2051	PMM2		75471

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.0	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		100	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
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SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 48443

Client	Burton Environmental, Inc
Report to Contact	Ross Klingman
Telephone No. / E-mail	
Quote No.	
Address	1101 South Blvd Ste 101
City	Charlotte
State	NC
Zip Code	28203
Sampler's Signature	X
Printed Name	
Analysis (Attach list if more space is needed)	
Page	1 of 1
Project Name	Gaston Co - Alten Landfill
Project No.	NC
P.O. No.	

QE14074

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Comp	Matrix: Aqueous	Soil	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3		App II VOC's	Rcra metals	Remarks / Cooler I.D.
MW-1	5-12-15	11:30	G	✓										X	X	
MW-2	"	12:00	G	✓										X	X	
MW-3	"	12:30	G	✓										X	X	
MW-4	"	13:00	G	✓										X	X	
MW-5	"	13:30	G	✓										X	X	
MW-5A	"	14:00	G	✓										X	X	
MW-6	"	11:00	G	✓										X	X	
TW-1	"	9:30	G	✓										X		
TW-2	"	10:00	G	✓										X	X	
TW-3	"	10:30	G	✓										X	X	
UPSTREAM	"	15:00	G	✓										X	X	
DOWNSTREAM	"	11:45	G	✓										X	X	
TRIP BLANK	—	—	G	✓										X		

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

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

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

QC Requirements (Specify) NC SOLID WASTE Rules w/ Low DETECTION LIMITS

	Date	Time		Date	Time
1. Relinquished by	5-14-15	9:30	1. Received by	5.14.15	930
2. Relinquished by	5.14.15	1035	2. Received by	5.14.15	1035
3. Relinquished by	5.14.15	1540	3. Received by	5/14/15	1540
4. Relinquished by	5/14/15	1620	4. Laboratory received by	5/14/15	1620

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

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 2.3 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 05-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: Buxton Cooler Inspected by/date: mcm/051415 Lot #: QE14074

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:
12.3/2.3 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: ___ IR Gun Correction Factor: 0.0°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: mcm Verified by: _____ Date: 5/14/15

Comments:

APPENDIX B
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*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	3.3BJ	BDL	BDL	BDL	BDL	12J	10J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	0.34J	BDL	BDL	BDL	BDL	1.3	0.22J	BDL	BDL	BDL	0.1J	BDL	0.19J	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	13	7.2	16	20	26	18	17	11.5	15	5	8	5	5.5	12	2	6.2	13	BDL	14	3.8	3.5	1	15	0.82J	BDL	6	0.93J	BDL	0.33J	2.6	BDL	11	BDL	1.4	BDL	50
1,2-DCB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.54J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
1,4-DCB	BDL	BDL	BDL	BDL	6	8	BDL	BDL	BDL	4.2	4.9	2.4	2.7	BDL	1.6	2.8	BDL	1.2	3.4	BDL	2.6	0.82J	1.1	0.57J	1.2	BDL	BDL	1.4	0.39J	BDL	BDL	1.9	BDL	1.9	BDL	BDL	BDL	6
cis-1,2-DCE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.1	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Ethylbenzene	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	0.42J	BDL	BDL	BDL	BDL	600
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	0.52J	BDL	BDL	BDL	0.49J	BDL	7.7	BDL	0.89J	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	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	6	BDL	BDL	BDL	BDL	16	30	BDL	BDL	BDL	BDL	14	6.1	8.4	BDL	6.3	6	BDL	BDL	4.1J	BDL	BDL	BDL	7J	BDL	BDL	5.9J	9.3BJ	6.7J	6.8J	4J	BDL	4.7J	8.6J	BDL	2.6J	10
Barium	510	1,800	490	1,100	BDL	540	840	1,000	BDL	335	384	190	200	230	380	320	140	400	390	120	240	170	170	74	170	92	140	330	240	95	90	230	110	210	140	180	120	700
Cadmium	2	6	3	5.3	1	5	16	10	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1J	BDL	0.68J	0.99J	BDL	BDL	BDL	BDL	BDL	0.7J	2
Chromium	32	54	27	48	BDL	22	45	82	14	BDL	9	BDL	BDL	14	28	11	BDL	15	12	BDL	14	2.3J	BDL	BDL	BDL	BDL	BDL	20	13	BDL	BDL	2.1BJ	BDL	BDL	BDL	2.5J	1.1J	10
Lead	95	43	41	49	BDL	21	53	96	BDL	BDL	5	BDL	120	36	48	18	11	19	860	450	160	40	500	530	82	20	29	140	75	19	9.6J	2.4J	9.1J	BDL	4.4BJ	5.5J	7.6J	15
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.3BJ	BDL	4.9J	BDL	3.8J	BDL	BDL	BDL	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	0.74BJ	BDL	1.2J	BDL	BDL	1.1	BDL	BDL	2.6J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Mercury	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	.053J	0.19	.082J	0.2	BDL	BDL	.055BJ	.016J	.087BJ	.022J	BDL	1

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

DCB = dichlorobenzene; DCE = dichloroethene

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 AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																																						
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	BDL	8.5J	4.9BJ	BDL	10J	BDL	9.6J	17J	13J	BDL	12J	6.7J	BDL	BDL	BDL	7.9J	BDL	7.8J	6,000
Benzene	5	BDL	BDL	BDL	BDL	5	BDL	BDL	BDL	3.5	4.0	3.8	3.4	2.2	4.2	3.1	3.2	2.6	3.0	2.9	2.4	2.6	3.1	3.4	2.6	3.1	3.1	3.5	2.7	2.8	2.9	3.3	3.0	2.5	3.1	2.8	3.1	1
Carbon Disulfide	29	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	1.5	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	BDL	BDL	BDL	0.97J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	BDL	BDL	BDL	5	BDL	5	6	5.4	5	4.8	4.2	3.4	2.3	5.2	5.3	4.4	4.5	5.5	5.2	5.5	4.8	6.1	6.6	4.2	4.4	5.2	6.8	5.8	7.8	7.7	7.5	7.5	6.3	8	7.5	11	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.68J	BDL	BDL	2.1	1J	0.97J	BDL	BDL	0.63J	0.72J	0.48J	0.54J	0.53J	BDL	BDL	BDL	3,000
1,2-DCB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	1.2	1	BDL	BDL	1.3	1.1	0.84J	0.89J	1.4	1.7	BDL	BDL	0.88J	1.1	1	1.6	1.3	1.3	1.1	0.87J	1.2	0.88J	1.6	20
1,4-DCB	20	19	19	16	26	28	24	20	24	23.9	24	21	11	12	17	16	14	16	19	17	16	15	19	21	18	12	13	18	14	19	19	20	15	15	17	15	18	6
1,1-DCA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	0.43J	0.39J	0.64J	BDL	0.73J	0.7J	0.84J	0.48J	0.52J	0.5J	0.38J	0.45J	0.34J	0.57J	0.27J	0.33J	6
1,2-DCP	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.78J	0.52J	0.4J	0.52J	BDL	0.56J	0.77J	1	0.44J	0.43J	0.54J	0.39J	0.58J	0.53J	0.52J	0.31J	BDL	0.6
cis-1,2-DCE	9.2	12	BDL	8.5	BDL	11	BDL	6	BDL	BDL	BDL	2	26	5	3.3	8.4	13	6.7	2.1	BDL	3.9	2	1	1.2	7.5	5.7	13	4.3	7.8	3	3.7	0.82J	14	6.3	3.8	2.3	1.7	70
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL	BDL	BDL	2.4	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600
MC	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.79BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
4-M-2-P	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23J	BDL	0.12J	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	0.38J	0.36J	0.44J	0.4J	0.59J	0.37J	0.56J	BDL	0.34J	0.35J	0.33J	0.4J	0.35J	BDL	0.45J	0.4J	0.47J	600
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	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.22J	BDL	BDL	BDL	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.7	3.9	2.2	2.5	BDL	2.2	BDL	BDL	1.4	0.88J	0.77J	0.42J	BDL	1.2	2.2	0.22J	0.98J	0.46J	0.55J	0.22J	1.6	1.3	1.3	BDL	0.48J	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	0.71J	0.6J	2.2	BDL	0.62J	BDL	1.2	BDL	1.1	0.57J	0.69J	0.94J	0.36J	BDL	0.76J	0.9J	1.1	500
RCRA Metals																																						
Arsenic	7	BDL	BDL	6.5	BDL	BDL	BDL	BDL	BDL	BDL	12	BDL	14	BDL	7.6	5.2	9.8	12	7.8	13	7.9	12	11	11	15	4.5J	8.5J	8.6BJ	25B	12	8J	7J	16	18	23B	11	12	10
Barium	1,100	1,000	1,600	1,000	590	800	BDL	BDL	BDL	609	686	720	120	720	780	610	600	590	670	910	480	51	650	580	460	450	560	510	600	470	600	490	560	380	490	420	590	700
Cadmium	14	15	2	3.5	BDL	6	12	3	1	BDL	4	BDL	BDL	BDL	2.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	BDL	0.73J	BDL	BDL	BDL	BDL	2.1	BDL	2.1	BDL	BDL	BDL	1J	2
Chromium	25	83	44	20	BDL	10	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	11	BDL	BDL	BDL	BDL	7.1	BDL	BDL	BDL	BDL	BDL	2.1J	BDL	BDL	2.1J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.74J	10
Lead	30	54	49	180	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	10	BDL	5.8	BDL	7	BDL	BDL	8.9	14	10	4.4J	BDL	BDL	BDL	BDL	2.6J	BDL	44	BDL	BDL	6.8J	BDL	15
Mercury	BDL	BDL	BDL	1.4	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	0.061	0.089J	BDL	BDL	0.043J	0.22B	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	17	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.8	BDL	BDL	2.8BJ	BDL	15	BDL	3.5J	BDL	BDL	BDL	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	BDL	4.7J	BDL	0.62J	BDL	4.6J	BDL	BDL	4.1J	BDL	BDL	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;DCB=dichlorobenzene;DCP=dichloropropane; DCA=dichloroethane; DCE=dichloroethene; MC=methylene chloride; 4-M-2-P=4-methyl-2-pentanone

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 AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*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	2.2J	3.7BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9	2	1.6	BDL	BDL	1.2	1.4	BDL	1.4	1.5	1.3	1.4	2.1	1.1	1.5	BDL	1.5	1.6	2.7	1.3	3.6	1.7	3.1	1.7	1.3	1.9	1.4	1.5	1
CD	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	BDL	BDL	BDL	BDL	0.87J	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	0.96J	1.1	0.5J	BDL	BDL	0.92J	1.1	2.2	0.69J	3.5	1.4	2.9	1.2	0.87J	1.5	1.1	1.2	50
1,2-DCB	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	1.7	BDL	1	BDL	BDL	BDL	BDL	BDL	20
1,4-DCB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.2	BDL	BDL	BDL	2	BDL	9.6	0.46J	6.1	0.67J	0.37J	0.66J	0.45J	0.46J	6
1,1-DCA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	0.2J	BDL	0.17J	BDL	BDL	BDL	0.24J	BDL	0.59J	BDL	0.37J	0.18J	BDL	BDL	BDL	BDL	6
cis-1,2-DCE	13	10	BDL	8.1	9	17	9	16	12	24.6	10.2	6.4	2.8	1.8	8.1	5.6	2.9	5.7	6.1	1.7	4.2	4.8	1.3	0.91J	0.95J	0.66J	2.4	0.65J	0.44J	0.9J	1.1	BDL	0.65J	0.16J	0.97J	0.37J	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.56J	BDL	0.86J	BDL	BDL	BDL	BDL	BDL	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10.8	7.4	BDL	BDL	BDL	2.2	BDL	BDL	2.4	BDL	BDL	1.8	2.3	BDL	0.88J	BDL	0.75J	1.1	BDL	0.35J	0.61J	0.85J	BDL	0.6J	BDL	0.6J	BDL	BDL	0.03
Xylenes	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	3.3	BDL	1.7	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																						
Arsenic	BDL	5	BDL	BDL	BDL	BDL	16	BDL	BDL	BDL	BDL	BDL	23	43	29	77	11	44	31	15	78	200	5.8	BDL	25	6.5J	BDL	BDL	22B	BDL	14	BDL	22	16	BDL	6.7J	5.1J	10
Barium	420	350	380	BDL	BDL	BDL	680	BDL	BDL	213	73	110	81	700	390	740	120	380	390	200	260	820	63	65	73	82	57	80	65	210	71	180	83	56	62	60	67	700
Cadmium	BDL	2	BDL	BDL	2	3	17	BDL	BDL	BDL	1	BDL	BDL	BDL	3.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	0.88J	0.96J	BDL	BDL	BDL	BDL	BDL	BDL	1.3J	BDL	BDL	BDL	1.3J	2
Chromium	31	25	27	41	BDL	13	50	BDL	BDL	BDL	BDL	BDL	BDL	50	31	53	BDL	29	30	12	22	63	BDL	BDL	3.9J	3.7J	BDL	BDL	BDL	BDL	BDL	2.4BJ	BDL	BDL	BDL	BDL	0.95J	10
Lead	20	20	24	23	BDL	BDL	44	BDL	BDL	BDL	BDL	BDL	BDL	28	15	43	BDL	25	13	6.5	14	14	BDL	10	12	3.6J	5.8J	BDL	BDL	BDL	BDL	BDL	71	BDL	BDL	10	BDL	15
Mercury	BDL	BDL	BDL	3.1	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	0.088J	BDL	BDL	.069BJ	0.02J	0.14B	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	BDL	19	BDL	9.4	BDL	BDL	BDL	BDL	6.3	BDL	BDL	6.1B	BDL	17	BDL	12	3.5BJ	BDL	20	BDL	BDL	4.7J	BJ	BDL	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	BDL	2.2J	BDL	0.84J	1.6J	BDL	BDL	BDL	2J	BDL	1.3J	BDL	BDL	BDL	BDL	BDL	3.2J	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

CD = carbon disulfide; DCB = dichlorobenzene; DCA = dichloroethane; DCE = dichloroethene

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 AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																																						
Acetone	BDL	BDL	450	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	3BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	0.43J	0.41J	0.56J	BDL	0.39J	0.22J	0.59J	0.28J	0.25J	0.23J	0.23J	BDL	0.23J	0.13J	BDL	BDL	1
CD	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	0.25J	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	0.55J	0.5J	0.38J	BDL	BDL	0.55J	0.42J	0.98J	0.46J	0.79J	0.43J	1	BDL	0.64J	0.45J	0.65J	0.72J	50
1,4-DCB	BDL	BDL	BDL	9	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	1.7	BDL	BDL	1.2	BDL	1.3	BDL	BDL	0.53J	1.3	0.86J	0.91J	BDL	BDL	BDL	1.3	0.84J	1.2	0.36J	BDL	0.47J	0.51J	0.44J	0.79J	0.59J	6
1,1-DCA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	0.24J	0.16J	0.21J	BDL	0.24J	BDL	0.19J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
1,2-DCA	5.1	BDL	BDL	24	BDL	7	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	0.6
cis-1,2-DCE	8.4	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	0.21J	1.1	0.45J	0.41J	BDL	0.58J	BDL	0.37J	0.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.8	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	600
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.17J	0.41J	0.28J	BDL	BDL	BDL	BDL	BDL	0.32J	0.41J	0.14J	BDL	0.18J	BDL	BDL	BDL	BDL	0.03
RCRA Metals																																						
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	6.5	BDL	BDL	6.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.6BJ	BDL	BDL	BDL	8.9J	BDL	4.8BJ	BDL	BDL	10
Barium	1,500	490	160	2,400	BDL	BDL	BDL	BDL	BDL	79	65	80	91	200	270	310	120	150	120	220	54	77	62	77	170	160	74	70	70	72	95	72	200	84	120	100	130	700
Cadmium	14	4	BDL	1.7	2	2	2	2	BDL	BDL	1	BDL	BDL	BDL	BDL	1.1	3.4	BDL	BDL	1.2	1.3J	1.9J	BDL	3.3	2.5	6.3	BDL	1.2J	BDL	1.3J	1.3J	1.2J	9.8	0.81J	0.6J	1.3J	1.4J	2
Chromium	150	44	6	15	BDL	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	26	27	BDL	9.6	5.8	21	3J	BDL	3.3	BDL	14	12	2.6J	BDL	BDL	BDL	BDL	2.1BJ	17	BDL	3.1J	BDL	8.8	10
Lead	110	32	13	27	BDL	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.2	14	16	3.8	BDL	3.8	8.5	BDL	BDL	BDL	5.8	18	7.5J	BDL	BDL	BDL	2.6J	BDL	2.9J	55	BDL	9BJ	3.2J	7.7J	15
Mercury	BDL	BDL	BDL	2.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.056J	BDL	BDL	BDL	BDL	BDL	.067J	BDL	BDL	.048BJ	.018J	.022BJ	.016J	BDL	1
Selenium	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	4.8J	BDL	BDL	BDL	BDL	BDL	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	1.5BJ	BDL	1.4J	0.53J	BDL	5.7	BDL	BDL	BDL	BDL	BDL	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; CD = carbon disulfide; DCB = dichlorobenzene; DCA =dichloroethane; DCE =dichloroethene

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

rk:table:authistgw.mw4

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

Date	*4/97*	*9/97*	*4/98*	*9/98*	*4/99*	*9/99*	*5/00*	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																																						
Acetone	BDL	BDL	BDL	BDL	29	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.8J	4BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Benzene	8.2	BDL	BDL	BDL	8	BDL	9	BDL	6	BDL	BDL	3.4	8.5	BDL	4.7	2.4	3.1	1.6	3	2	4	0.69J	3.6	2.4	5	2.9	6.1	3.4	4.5	2.6	2.9	1.4	2.1	2.4	5.1	3.2	3.8	1
CD	5.9	9.4	BDL	BDL	13	BDL	BDL	39	BDL	BDL	4.1	BDL	3.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.67J	BDL	BDL	BDL	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chlorobenzene	8.3	6.1	13	BDL	17	BDL	20	6	22	BDL	3.7	6.7	15	2.1	18	13	9	11	12	15	18	2.3	10	10	12	10	15	18	14	13	14	7	16	12	19	11	13	50
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.71J	BDL	BDL	BDL	2.7	1.3J	1.9J	0.47J	1.3J	1.1J	0.8J	BDL	0.66J	0.77J	1.5J	BDL	0.8J	3,000
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.48J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-DCB	5.8	BDL	7.6	BDL	7	BDL	BDL	BDL	6.9	BDL	BDL	1.4	4.6	BDL	5.1	4.2	4.7	5.5	3	4.9	5	0.56J	2.9	3.1	3	1.1	3.7	4.4	3.1	3.7	3.4	1.5	3.8	2.4	4.7	2.7	4.5	20
1,4-DCB	31	16	45	BDL	39	6	48	8	36	2.8	6.2	8.8	30	6.6	25	BDL	26	32	18	22	24	5.2	16	18	30	29	25	23	18	20	17	9.2	17	12	23	17	25	6
1,1-DCA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	BDL	1.4	BDL	1.1	BDL	BDL	BDL	0.97J	BDL	0.43J	0.35J	BDL	0.48J	0.69J	0.46J	0.41J	0.27J	0.34J	0.14J	0.27J	BDL	0.47J	0.22J		6
1,2-DCA	19	15	17	BDL	14	7	7	7	5.2	BDL	BDL	BDL	BDL	3.2	1.3	1.6	BDL	BDL	1.7	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-DCE	11	6.7	5.4	BDL	6	BDL	BDL	5	BDL	BDL	BDL	BDL	3.2	1.8	1.9	2.1	1.4	1.9	2.1	1.2	2.4	1.2	0.65J	0.85J	BDL	0.97J	0.56J	1.5	0.38J	0.42J	0.32J	0.34J	0.37J	0.76J	0.83J	BDL	0.65J	70
Styrene	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	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	0.32J	BDL	BDL	BDL	0.47J	0.47J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	0.44J	BDL	0.45J	600
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2	0.41J	1.1	0.71J	BDL	0.53J	0.73J	BDL	0.55J	0.32J	0.44J	0.22J	0.61J	0.69J	0.73J	BDL	BDL	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.3	BDL	2.3	BDL	BDL	BDL	BDL	BDL	BDL	0.32J	BDL	BDL	BDL	0.41J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	500
RCRA Metals																																						
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17	9.8	6.5	BDL	BDL	6.6	BDL	7.3	5.8	12	4.6J	4.5J	16	5.6J	4.9J	BDL	16B	17	23	BDL	16	8J	7.9BJ	BDL	2.2J	10
Barium	240	510	450	620	BDL	620	BDL	BDL	BDL	75	97	120	91	180	520	310	300	280	250	320	240	300	180	150	200	320	300	180	220	190	220	160	230	160	220	190	210	700
Cadmium	BDL	4	2	1	3	6	2	2	BDL	BDL	BDL	BDL	BDL	BDL	2.2	2.8	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	0.64J	BDL	2	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	BDL	BDL	BDL	0.9J	2
Chromium	BDL	10	3	35	BDL	14	BDL	BDL	BDL	BDL	BDL	12	BDL	BDL	11	BDL	BDL	5.9	BDL	BDL	4.3J	6.3	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	BDL	2.1BJ	BDL	BDL	BDL	BDL	0.95J	10
Lead	7	28	22	26	23	24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	7.4	BDL	10	BDL	BDL	2.6J	BDL	8.6	8.1	8.1BJ	10	4.5J	BDL	BDL	BDL	BDL	BDL	49	BDL	BDL	7.2J	BDL	15
Mercury	BDL	BDL	BDL	1.2	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	0.076J	BDL	BDL	.035BJ	BDL	.076BJ	.019J	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	36	12	9	15	BDL	14	9.5	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	14	BDL	5	BDL	BDL	18	BDL	BDL	BDL	BDL	BDL	3.4J	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6J	BDL	0.65J	BDL	BDL	BDL	BDL	18	BDL	BDL	BDL	BDL	0.81J	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

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rk:table:authistgw.mw5

MW-5A
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																															
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9J	2.8BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.16J	BDL	BDL	BDL	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Bromoform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	1.2	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
RCRA Metals																															
Arsenic	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.7BJ	5.7J	BDL	BDL	BDL	5.6J	5.9BJ	BDL	BDL	10
Barium	BDL	BDL	59	60	100	140	130	140	120	170	110	150	140	160	82	87	76	120	92	140	95	140	85	120	71	150	93	130	110	150	700
Cadmium	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6J	5.3	4.2	6BJ	3.1J	BDL	BDL	4.8J	6.8J	BDL	BDL	13	BDL	2.8BJ	BDL	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.15	BDL	BDL	BDL	BDL	.066BJ	.058J	.073BJ	BDL	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.2BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.81BJ	BDL	0.96J	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	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

rk:table:authistgw.mw5A

MW-6
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*10/00*	*5/01*	*12/01*	*7/02*	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																															
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.18J	BDL	0.37J	0.32J	0.35J	0.28J	0.16J	0.19J	0.13J	0.17J	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	1.3	BDL	BDL	BDL	BDL	BDL	0.59J	0.56J	1.3	2.2	2.7	2.7	2.7	1.7	0.79J	0.78J	0.49J	0.48J	0.73J	0.69J	0.45J	0.19J	70
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4J	BDL	BDL	BDL	BDL	BDL	BDL	280
Tetrachloroethene	18	6.9	6	3.4	4.6	BDL	BDL	4.9	4.1	2.8	3.8	3.5	3.4	BDL	3.2	3.5	4.2	5.8	5.7	5.4	3.4	3.7	3.6	3.2	2.9	3	2.7	1.3	1.3	1.9	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	BDL	BDL	0.37J	0.46J	0.72J	1.2	1.3	1.3	BDL	0.65J	0.51J	0.43J	0.32J	0.3J	0.32J	BDL	BDL	BDL	3
RCRA Metals																															
Arsenic	180	BDL	15	54	BDL	BDL	21	29	24	BDL	33	22	24	BDL	BDL	BDL	4.7J	BDL	BDL	BDL	BDL	5.4BJ	13	BDL	BDL	4.5J	BDL	6.4BJ	BDL	BDL	10
Barium	4,600	BDL	504	1,720	48	120	820	1,500	1,700	540	1,700	1,300	1,400	65	51	65	210	66	61	84	49	40	73	44	50	47	53	45	43	47	700
Cadmium	16	BDL	BDL	3	BDL	BDL	BDL	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.7	1.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	340	BDL	44	134	BDL	BDL	89	130	110	10	120	97	120	4.1J	BDL	2.8J	15	3.4J	BDL	4.5J	BDL	BDL	3.3J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Lead	240	BDL	10	61	BDL	BDL	24	41	62	11	60	41	61	8.5	BDL	6.2	19	9.8B	2J	6.7J	2.1BJ	BDL	BDL	BDL	BDL	28	9.6J	BDL	BDL	BDL	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.062J	BDL	BDL	BDL	BDL	BDL	BDL	0.02BJ	BDL	BDL	0.017J	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	10	BDL	BDL	BDL	BDL	7.1	BDL	BDL	3.2BJ	0.54J	3.7J	2.6	BDL	7.5BJ	BDL	BDL	BDL	3.7J	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	BDL	BDL	0.9J	BDL	BDL	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

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

TW-1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																										
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	0.19J	NT	NT	NT	NT	NT	0.58J	NT	NT	NT	NT	NT	NT	NT	BDL	BDL	BDL	0.7
Toluene	BDL	170	BDL	BDL	BDL	NT	NT	NT	BDL	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	0.23J	BDL	BDL	600
RCRA Metals																										
Arsenic	BDL	**14**	BDL	**15**	BDL	NT	NT	NT	24J	NT	NT	NT	NT	NT	5.1J	NT	NT	NT	NT	NT	NT	NT	**38B**	NT	NT	10
Barium	180	**940**	120	**980**	400	NT	NT	NT	**8,200**	NT	NT	NT	NT	NT	**1,700**	NT	NT	NT	NT	NT	NT	NT	**2,700**	NT	NT	700
Cadmium	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	9.8J	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	BDL	NT	NT	2
Chromium	BDL	**46**	BDL	**28**	2.2	NT	NT	NT	**240**	NT	NT	NT	NT	NT	**39**	NT	NT	NT	NT	NT	NT	NT	**100**	NT	NT	10
Lead	3.1	**60**	BDL	**370**	**170**	NT	NT	NT	**5,200**	NT	NT	NT	NT	NT	**390**	NT	NT	NT	NT	NT	NT	NT	**220B**	NT	NT	15
Mercury	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	0.071J	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	BDL	NT	NT	1
Silver	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	8.6BJ	NT	NT	NT	NT	NT	BDL	NT	NT	NT	NT	NT	NT	NT	BDL	NT	NT	20
Selenium	BDL	6.9	BDL	BDL	BDL	NT	NT	NT	25	NT	NT	NT	NT	NT	4.8BJ	NT	NT	NT	NT	NT	NT	NT	BDL	NT	NT	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

NT = not tested (TW-1 was dry and unable to be sampled)

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

rk:table:authistgw.tw1

TW-2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.64J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.34J	0.47J	0.65J	0.58J	0.73J	BDL	0.55J	70
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.59J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.57J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Tetrachloroethene	2	BDL	2.7	3.6	2.7	6.2	6.6	7.2	6.4	6.8	4.1	2	4	1.7	1.3	0.63J	1.8	2.1	1.6	0.54J	0.25J	0.53J	BDL	0.99J	1.1	0.7
RCRA Metals																										
Arsenic	BDL	BDL	BDL	7.4	BDL	14	BDL	19	BDL	BDL	BDL	68	BDL	BDL	BDL	BDL	9.2BJ	BDL	BDL	8.1J	BDL	BDL	5.5BJ	4.2J	5.3J	10
Barium	210	76	240	1,200	880	1,300	100	2,600	120	220	190	7,000	81	180	110	170	130	120	180	690	110	110	210	120	350	700
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.4	BDL	BDL	BDL	BDL	BDL	BDL	1.3J	BDL	BDL	BDL	BDL	BDL	BDL	2
Chromium	7.2	BDL	18	66	BDL	83	BDL	180	7.1	12	6.2	490	BDL	5.6	3.7J	3J	4.6J	3.7J	9.5	44B	3.4J	4.8J	9.9	5.7	22	10
Lead	7.2	BDL	5.7	31	9.1	30	BDL	58	3.8	BDL	8.9	200	5.8BJ	6.2J	2.2J	BDL	6.5J	5.4J	6.2J	18	40	8.5J	3.8BJ	4.9J	10	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.073J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.054BJ	0.02J	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.4BJ	BDL	44	3.1J	3.5J	5.4BJ	BDL	7.9J	3.5BJ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	23	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	BDL	BDL	0.48J	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

rk:table:authistgw.tw2

TW-3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
GASTON COUNTY - CLOSED AUTEN LANDFILL
GASTONIA, NORTH CAROLINA

Date	*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*	*11/11*	*5/12*	*12/12*	*5/13*	*12/13*	*5/14*	*12/14*	*5/15*	*NCGPS*
Appendix I VOC's																										
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.3BJ	BDL	BDL	NT	NT	27	6.8J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	6.8J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1J	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3,000
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	0.34J	BDL	0.4J	0.47J	BDL	BDL	0.35J	0.46J	70
1,1-Dichloroethane	BDL	1	1.6	1.4	1.1	BDL	BDL	BDL	BDL	0.15J	0.13J	0.15J	NT	NT	0.22J	0.13J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6
cis-1,2-Dichloroethene	6.8	33	11	6.7	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	BDL	0.27J	NT	NT	0.92J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	280
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	0.4J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	560
Tetrachloroethene	**6**	**16**	**10**	**10**	**7.9**	**4**	**3.7**	**1.9**	BDL	**3**	**2.2**	**2.1**	NT	NT	**2**	0.21J	0.71J	0.96J	**1.8**	0.66J	**1.4**	**2.5**	**3.2**	**2.2**	**1.9**	0.7
Trichloroethene	**3.4**	**12**	**4.2**	2.7	1.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0
RCRA Metals																										
Arsenic	BDL	BDL	BDL	BDL	5.3	9	**15**	**11**	4.1J	BDL	8.3	4.4	NT	NT	4.9J	9.1BJ	7.4BJ	BDL	**11**	**15**	7.2J	6J	5.3BJ	**12**	**12**	10
Barium	220	490	210	180	510	500	**1,200**	**800**	240	280	560	410	NT	NT	620	380	280	310	250	**2,300**	**790**	430	330	400	510	700
Cadmium	BDL	BDL	BDL	1.4	**13**	1.4	**4.8**	**3.5**	**3**	**2.3**	**2.8**	**2.1**	NT	NT	1.7J	1.3J	**9.5**	**3.9**	**9.1**	**14**	**17**	**4.5**	1.5J	1.4J	**2.7**	2
Chromium	BDL	**11**	6.2	5.6	5.3	23	**62**	46	9.8	1.5	**30**	**20**	NT	NT	**15**	**11**	**13**	**12**	**12**	**85B**	**32**	**26**	**12**	**21**	**29**	10
Lead	BDL	BDL	BDL	8.2	4.3	**13**	**39**	**24**	5	7	**29**	**21**	NT	NT	9.2J	8.3BJ	3.8J	6.7J	5.9J	BDL	BDL	**21**	10B	**27**	**51**	15
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.063J	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	0.038BJ	BDL	0.099BJ	0.025J	BDL	1
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.4J	NT	NT	BDL	BDL	4.8J	BDL	BDL	BDL	3.3J	BDL	BDL	BDL	BDL	20
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.43J	NT	NT	BDL	BDL	2J	BDL	BDL	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
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