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):**

Buxton Environmental, Inc.

**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) |
|---|---|---|---|---|
| Alamance County - Closed Swepsonville Landfill | Alfred Road Graham, NC 27253 | 0101 | 0500 | September 15, 2014 |

**Environmental Status: (Check all that apply)**

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

**Type of data submitted: (Check all that apply)**

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

**Notification attached?**

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

## Certification

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

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

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

Signature October 21, 2014 Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1266 GEOLOGIST CHARLES ROSS KLINGMAN

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

***SECOND SEMI-ANNUAL 2014***
***GROUNDWATER AND SURFACE WATER MONITORING EVENT***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***

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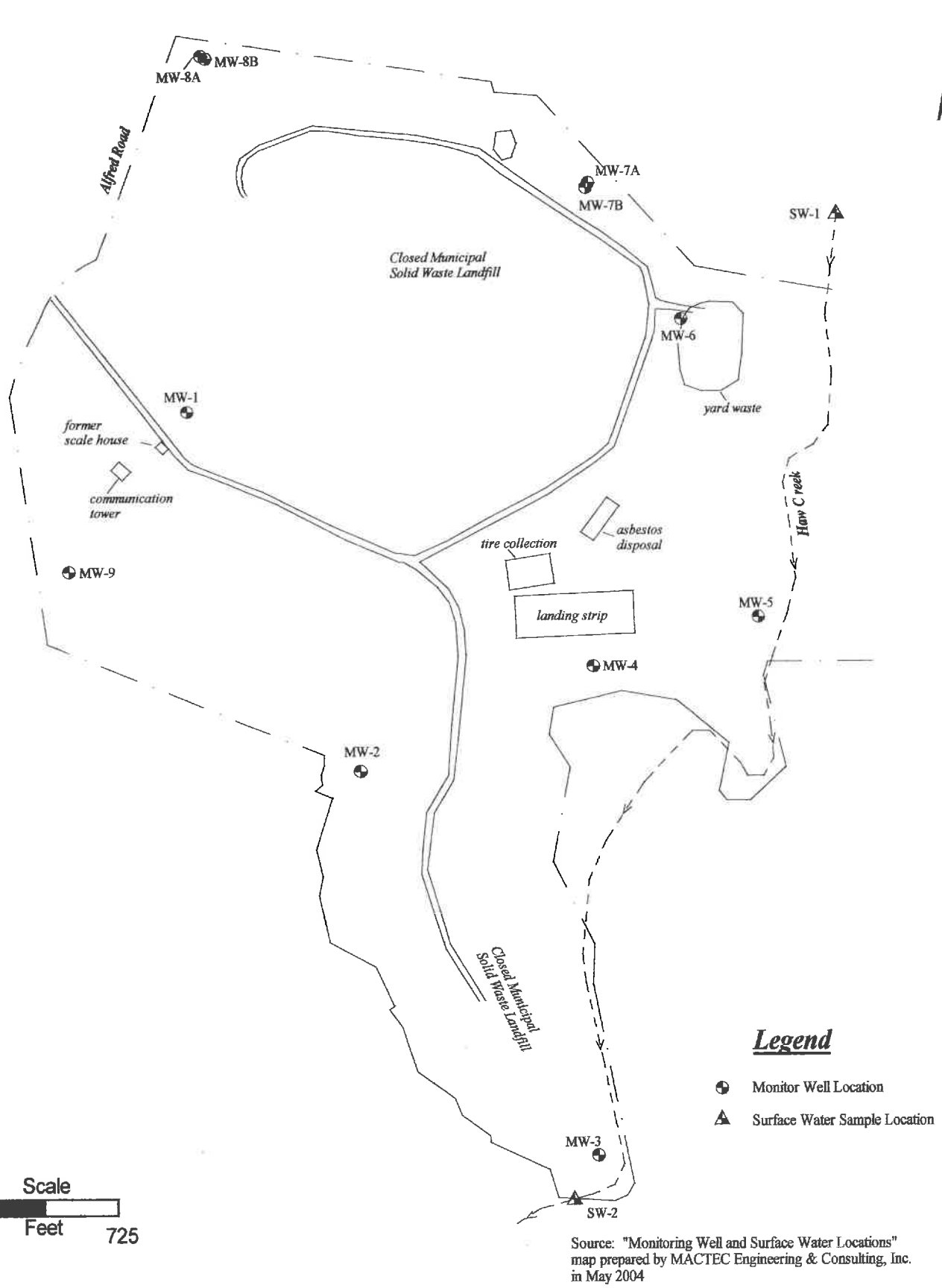


Source: "Monitoring Well and Surface Water Locations" map prepared by MACTEC Engineering & Consulting, Inc. in May 2004

| | | |
|---|---|---|
| Closed Swepsonville Landfill<br>Alamance County, NC | Buxton Environmental, Inc. | Figure 1.<br>Site Layout Map |

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***TABLE 1***
***GROUNDWATER GAUGING DATA***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***
***SEPTEMBER 15, 2014***

| *Well ID* | *TD BTOC (ft)* | *TOC Elevation (ft)* | *DTW BTOC (ft)* | *DTW Elevation (ft)* |
|---|---|---|---|---|
| | | | | |
| MW-1 | 33.00 | 574.67 | 24.82 | 549.85 |
| MW-2 | 29.90 | 510.67 | 28.01 | 482.66 |
| MW-3 | 24.10 | 466.63 | 11.98 | 454.65 |
| MW-4 | 50.00 | 497.57 | 30.75 | 466.82 |
| MW-5 | 19.00 | 476.56 | 16.87 | 459.69 |
| MW-6 | 50.00 | 529.50 | 21.55 | 507.95 |
| MW-7A | 31.05 | 554.12 | 23.53 | 530.59 |
| MW-7B | 64.02 | 553.09 | 24.05 | 529.04 |
| MW-8A | 65.00 | 591.08 | 25.74 | 565.34 |
| MW-8B | 26.00 | 591.25 | 25.15 | 566.10 |
| MW-9 | 27.50 | 568.78 | 22.15 | 546.63 |

Notes:
Depth to water measurements obtained on September 15, 2014 to the nearest 0.01 foot with a depth to water meter.
TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet
TD and TOC elevation data obtained from the "Report of Semi-Annual Water Quality Monitoring, Swepsonville Landfill, Graham, Alamance Co., North Carolina" report prepared by MACTEC in April 2005

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***TABLE 2***
***GROUNDWATER AND SURFACE WATER FIELD PARAMETER DATA***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***
***SEPTEMBER 15, 2014***

| *Sample ID* | *Field Parameters* | | |
|---|---|---|---|
| | *pH (standard units)* | *K (uS)* | *T (fahrenheit)* |
| | | | |
| MW-1 | 6.00 | 125 | 64.5 |
| MW-2 | 5.74 | 100 | 67.8 |
| MW-3 | 6.25 | 114 | 64.8 |
| MW-4 | 6.14 | 989 | 63.8 |
| MW-5 | 6.54 | 224 | 64.1 |
| MW-6 | 6.21 | 164 | 62.5 |
| MW-7A | 6.02 | 165 | 61.8 |
| MW-7B | 5.78 | 234 | 64.5 |
| MW-8A | 6.56 | 75 | 64.2 |
| MW-8B | 6.89 | 153 | 68.0 |
| MW-9 | 5.97 | 60 | 64.9 |
| SW-1 | 6.75 | 71 | 74.5 |
| SW-2 | 6.88 | 78 | 74.6 |

Notes:
Field parameters collected on September 15, 2014 by Buxton Environmental, Inc. utilizing EXTECH ExStik and ExStik II meters. Field parameters at monitor wells collected after purging 3 well volumes of water. Leachate and surface water field parameters collected immediately prior to sampling.
K = conductivity
T = temperature
uS = microsiemens

rk:tables:swepsonvillePar.914

***TABLE 3***
***GROUNDWATER ANALYTICAL DATA***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***
***SEPTEMBER 15, 2014***

| *Sample ID* | *MW-1* | *MW-2* | *MW-3* | *MW-4* | *MW-5* | *MW-6* | *MW-7A* | *MW-7B* | *MW-8A* | *MW-8B* | *MW-9* | *NCGPS* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| ***VOC's*** | | | | | | | | | | | | |
| Benzene | BDL | 0.79J | BDL | 1 | BDL | BDL | **6.9** | **5.4** | BDL | BDL | BDL | 1 |
| Chlorobenzene | BDL | 2 | BDL | 2.2 | BDL | BDL | 0.59J | 0.55J | BDL | BDL | BDL | 50 |
| Chloroethane | BDL | 2.1 | BDL | 8.1 | BDL | BDL | 4 | 3.6 | BDL | BDL | BDL | 3,000 |
| 1,2-Dichlorobenzene | BDL | BDL | BDL | 2.5 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 20 |
| 1,4-Dichlorobenzene | BDL | 5.6 | BDL | **15** | BDL | BDL | **6.3** | **6.3** | BDL | BDL | BDL | 6 |
| 1,1-Dichloroethane | BDL | **130** | BDL | **72** | BDL | BDL | **34** | **33** | BDL | BDL | BDL | 6 |
| 1,2-Dichloroethane | BDL | **2.1** | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.4 |
| 1,1-Dichloroethene | BDL | **8.8** | BDL | 0.37J | BDL | BDL | 0.2J | BDL | BDL | BDL | BDL | 7 |
| cis-1,2-Dichloroethene | BDL | **83** | 0.33J | **360** | BDL | BDL | **91** | **97** | BDL | BDL | BDL | 70 |
| trans-1,2-Dichloroethene | BDL | 2.8 | BDL | 2.3 | BDL | BDL | 0.45J | 0.43J | BDL | BDL | BDL | 100 |
| 1,2-Dichloropropane | BDL | **4.3** | BDL | **1.7** | BDL | BDL | 0.46J | 0.48J | BDL | BDL | BDL | 0.6 |
| Methylene Chloride | BDL | BDL | BDL | BDL | BDL | BDL | 1.2 | BDL | BDL | BDL | BDL | 5 |
| Tetrachloroethene | **1.4** | **22** | BDL | BDL | BDL | BDL | **14** | **5.5** | BDL | BDL | BDL | 0.7 |
| Trichloroethene | BDL | **56** | BDL | 1 | BDL | BDL | **18** | **21** | BDL | BDL | BDL | 3 |
| Vinyl Chloride | BDL | **8.1** | BDL | **21** | BDL | BDL | **6.8** | **6.5** | BDL | BDL | BDL | 0.03 |
| | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | |
| Antimony | BDL | 0.1J | BDL | BDL | 0.46J | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| Arsenic | 0.43BJ | 1.2B | 0.82BJ | 1.4B | 0.86BJ | 1.1B | 0.67BJ | 0.7BJ | 0.82BJ | BDL | 0.59BJ | 10 |
| Barium | 140 | 290 | 58 | 130 | 80 | 110 | 140 | 150 | 14 | **1,100** | 79 | 700 |
| Beryllium | 0.46 | 0.2J | BDL | BDL | 0.086J | 0.18J | BDL | BDL | BDL | 3.8 | 0.033J | 4 |
| Cadmium | 0.44 | 1.4 | 0.18 | 0.53 | 0.16 | 0.48 | 0.28 | 0.98 | 0.41 | 1.6 | 0.37 | 2 |
| Chromium | 0.45J | 6.1 | 0.39J | BDL | 0.97J | BDL | BDL | BDL | BDL | 5.8J | BDL | 10 |
| Cobalt | **2.7** | **5.1** | 0.03J | **83** | 0.86J | 4.2J | 1.3J | 0.45J | 0.056J | 41J | 1.1J | 1 |
| Copper | 1.8B | 9.9B | 0.91BJ | 5.1B | 4.5B | 4B | 0.81BJ | 2.6B | 1.1B | 15B | 1.6B | 1,000 |
| Lead | 0.82BJ | **19B** | 0.049BJ | 0.18BJ | 0.68BJ | 0.3BJ | 0.092BJ | 0.072BJ | 0.074BJ | 12B | 0.34BJ | 15 |
| Mercury | BDL | BDL | BDL | 0.021J | BDL | BDL | 0.039J | 0.061J | BDL | 0.054J | BDL | 1 |
| Nickel | 0.79J | 14 | 0.92J | 8 | 1.6J | 1.2J | 1.8J | 1.7J | 0.52J | 5.8J | 5.6 | 100 |
| Selenium | BDL | 0.97J | BDL | 1.1 | 0.28J | BDL | BDL | BDL | BDL | 3.4J | BDL | 20 |
| Silver | 0.046BJ | 0.058BJ | 0.025BJ | 0.018BJ | 0.065BJ | 0.014BJ | 0.023BJ | 0.028BJ | 0.028BJ | 0.35BJ | 0.029BJ | 20 |
| Vanadium | BDL | **31** | BDL | BDL | 4.6J | 2.3J | BDL | BDL | BDL | **74** | BDL | 0.3 |
| Zinc | 60B | 120B | 25B | 61 | 34B | 45B | 54B | 66B | 14B | 550B | 34 | 1,000 |

Notes:
Groundwater samples collected on September 15, 2014 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A and mercury by EPA Method 7470A.
Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
NCGPS=North Carolina Groundwater Protection Standard (J-flagged data not considered)
BDL=below detection limit
Bold and shade denotes above NCGPS
data presented in micrograms per liter (ug/l)
NT = not tested (limited water or dry well)
B = detected in method blank
J = estimated result <PQL and >=MDL

***TABLE 4***
***SURFACE WATER ANALYTICAL DATA***
***CLOSED SWEPSONVILLE LANDFILL***
***ALAMANCE COUNTY, NORTH CAROLINA***
***SEPTEMBER 15, 2014***

| ***Sample ID*** | ***SW-1*** | ***SW-2*** | ***NCSWWS*** |
|---|---|---|---|
| | | | |
| ***Volatile Organic Compounds*** | | | |
| 1,1-Dichloroethane | BDL | 0.26J | 6,700 |
| cis-1,2-Dichloroethene | BDL | 0.61J | 330 |
| | | | |
| ***Metals*** | | | |
| Arsenic | 0.87BJ | 0.88BJ | 10 |
| Barium | 33 | 44 | 1,000 |
| Cadmium | 0.073J | BDL | 2 |
| Cobalt | 0.15 | 0.46J | 3 |
| Copper | 1.1B | 1.1B | 7 |
| Lead | 0.078BJ | BDL | 25 |
| Nickel | 0.61J | 0.77J | 25 |
| Mercury | BDL | BDL | 0.012 |
| Silver | BDL | 0.015BJ | 0.06 |
| Zinc | 15B | 17 | 50 |

Notes:
Surface water samples collected on September 15, 2014 and analyzed for Appendix I volatile organic compounds (VOC's) by EPA Method 8260B, Appendix I metals by EPA 6020A, & mercury by EPA Method 7470A. Analyses by Shealy Environmental Services, Inc. in West Columbia, SC.
BDL=below detection limit; NA = not applicable
NCGPS=North Carolina Groundwater Protection Standard
NCSWWS = North Carolina Surface Water and Wetland Standards (15A NCAC 02B) for Haw Creek (Class WS-V Water) or are EPA National Criteria.
Bold and shade denotes above established NCSWWS (J-flagged data not considered)
data presented in micrograms per liter (ug/l)
B = detected in method blank
J = estimated result <PQL and >=MDL
NS = no standard
NA = not applicable

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# *APPENDIX A*
# *LABORATORY DATA SHEETS*

# Report of Analysis

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

Project Name: **Alamance Co. Swepsonville Landfill**

Lot Number: **PI16061**
Date Completed: **09/30/2014**

N. Saikaly

**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: PI16061

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: PI16061

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 001 | MW-1 | Aqueous | 09/15/2014 1400 | 09/16/2014 |
| 002 | MW-2 | Aqueous | 09/15/2014 1615 | 09/16/2014 |
| 003 | MW-3 | Aqueous | 09/15/2014 1630 | 09/16/2014 |
| 004 | MW-4 | Aqueous | 09/15/2014 1715 | 09/16/2014 |
| 005 | MW-5 | Aqueous | 09/15/2014 1730 | 09/16/2014 |
| 006 | MW-6 | Aqueous | 09/15/2014 1445 | 09/16/2014 |
| 007 | MW-7A | Aqueous | 09/15/2014 1530 | 09/16/2014 |
| 008 | MW-7B | Aqueous | 09/15/2014 1515 | 09/16/2014 |
| 009 | MW-8A | Aqueous | 09/15/2014 1545 | 09/16/2014 |
| 010 | MW-8B | Aqueous | 09/15/2014 1600 | 09/16/2014 |
| 011 | MW-9 | Aqueous | 09/15/2014 1430 | 09/16/2014 |
| 012 | SW-1 | Aqueous | 09/15/2014 1500 | 09/16/2014 |
| 013 | SW-2 | Aqueous | 09/15/2014 1645 | 09/16/2014 |
| 014 | TRIP BALNK | Aqueous | 09/15/2014 | 09/16/2014 |

(14 samples)

## Executive Summary
## Buxton Environmental
### Lot Number: PI16061

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 001 | MW-1 | Aqueous | Tetrachloroethene | 8260B | 1.4 | | ug/L | 9 |
| 001 | MW-1 | Aqueous | Arsenic | 6020A | 0.43 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Barium | 6020A | 140 | | ug/L | 11 |
| 001 | MW-1 | Aqueous | Beryllium | 6020A | 0.46 | | ug/L | 11 |
| 001 | MW-1 | Aqueous | Cadmium | 6020A | 0.44 | | ug/L | 11 |
| 001 | MW-1 | Aqueous | Chromium | 6020A | 0.45 | J | ug/L | 11 |
| 001 | MW-1 | Aqueous | Cobalt | 6020A | 2.7 | J | ug/L | 11 |
| 001 | MW-1 | Aqueous | Copper | 6020A | 1.8 | B | ug/L | 11 |
| 001 | MW-1 | Aqueous | Lead | 6020A | 0.82 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Nickel | 6020A | 0.79 | J | ug/L | 11 |
| 001 | MW-1 | Aqueous | Silver | 6020A | 0.046 | BJ | ug/L | 11 |
| 001 | MW-1 | Aqueous | Zinc | 6020A | 60 | B | ug/L | 11 |
| 001 | MW-1 | Aqueous | Mercury | 7470A | 0.00019 | | mg/L | 12 |
| 002 | MW-2 | Aqueous | Benzene | 8260B | 0.79 | J | ug/L | 13 |
| 002 | MW-2 | Aqueous | Chlorobenzene | 8260B | 2.0 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Chloroethane | 8260B | 2.1 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,4-Dichlorobenzene | 8260B | 5.6 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,1-Dichloroethane | 8260B | 130 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,2-Dichloroethane | 8260B | 2.1 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,1-Dichloroethene | 8260B | 8.8 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | cis-1,2-Dichloroethene | 8260B | 83 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.8 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | 1,2-Dichloropropane | 8260B | 4.3 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Tetrachloroethene | 8260B | 22 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Trichloroethene | 8260B | 56 | | ug/L | 13 |
| 002 | MW-2 | Aqueous | Vinyl chloride | 8260B | 8.1 | | ug/L | 14 |
| 002 | MW-2 | Aqueous | Antimony | 6020A | 0.10 | J | ug/L | 15 |
| 002 | MW-2 | Aqueous | Arsenic | 6020A | 1.2 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Barium | 6020A | 290 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Beryllium | 6020A | 0.20 | J | ug/L | 15 |
| 002 | MW-2 | Aqueous | Cadmium | 6020A | 1.4 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Chromium | 6020A | 6.1 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Cobalt | 6020A | 5.1 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Copper | 6020A | 9.9 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Lead | 6020A | 19 | B | ug/L | 15 |
| 002 | MW-2 | Aqueous | Nickel | 6020A | 14 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Selenium | 6020A | 0.97 | J | ug/L | 15 |
| 002 | MW-2 | Aqueous | Silver | 6020A | 0.058 | BJ | ug/L | 15 |
| 002 | MW-2 | Aqueous | Vanadium | 6020A | 31 | | ug/L | 15 |
| 002 | MW-2 | Aqueous | Zinc | 6020A | 120 | B | ug/L | 15 |
| 003 | MW-3 | Aqueous | cis-1,2-Dichloroethene | 8260B | 0.33 | J | ug/L | 17 |
| 003 | MW-3 | Aqueous | Arsenic | 6020A | 0.82 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Barium | 6020A | 58 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Cadmium | 6020A | 0.18 | | ug/L | 19 |
| 003 | MW-3 | Aqueous | Chromium | 6020A | 0.39 | J | ug/L | 19 |

# Executive Summary (Continued)

## Lot Number: PI16061

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 003 | MW-3 | Aqueous | Cobalt | 6020A | 0.030 | J | ug/L | 19 |
| 003 | MW-3 | Aqueous | Copper | 6020A | 0.91 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Lead | 6020A | 0.049 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Nickel | 6020A | 0.92 | J | ug/L | 19 |
| 003 | MW-3 | Aqueous | Silver | 6020A | 0.025 | BJ | ug/L | 19 |
| 003 | MW-3 | Aqueous | Zinc | 6020A | 25 | B | ug/L | 19 |
| 004 | MW-4 | Aqueous | Benzene | 8260B | 1.0 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Chlorobenzene | 8260B | 2.2 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Chloroethane | 8260B | 8.1 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,2-Dichlorobenzene | 8260B | 2.5 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,4-Dichlorobenzene | 8260B | 15 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,1-Dichloroethane | 8260B | 72 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,1-Dichloroethene | 8260B | 0.37 | J | ug/L | 21 |
| 004 | MW-4 | Aqueous | cis-1,2-Dichloroethene | 8260B | 360 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.3 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | 1,2-Dichloropropane | 8260B | 1.7 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Trichloroethene | 8260B | 1.0 | | ug/L | 21 |
| 004 | MW-4 | Aqueous | Vinyl chloride | 8260B | 21 | | ug/L | 22 |
| 004 | MW-4 | Aqueous | Arsenic | 6020A | 1.4 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Barium | 6020A | 130 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Cadmium | 6020A | 0.53 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Cobalt | 6020A | 83 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Copper | 6020A | 5.1 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Lead | 6020A | 0.18 | BJ | ug/L | 23 |
| 004 | MW-4 | Aqueous | Nickel | 6020A | 8.0 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Selenium | 6020A | 1.1 | | ug/L | 23 |
| 004 | MW-4 | Aqueous | Silver | 6020A | 0.018 | BJ | ug/L | 23 |
| 004 | MW-4 | Aqueous | Zinc | 6020A | 61 | B | ug/L | 23 |
| 004 | MW-4 | Aqueous | Mercury | 7470A | 0.000021 | J | mg/L | 24 |
| 005 | MW-5 | Aqueous | Antimony | 6020A | 0.46 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Arsenic | 6020A | 0.86 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Barium | 6020A | 80 | | ug/L | 27 |
| 005 | MW-5 | Aqueous | Beryllium | 6020A | 0.086 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Cadmium | 6020A | 0.16 | | ug/L | 27 |
| 005 | MW-5 | Aqueous | Chromium | 6020A | 0.97 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Cobalt | 6020A | 0.86 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Copper | 6020A | 4.5 | B | ug/L | 27 |
| 005 | MW-5 | Aqueous | Lead | 6020A | 0.68 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Nickel | 6020A | 1.6 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Selenium | 6020A | 0.28 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Silver | 6020A | 0.065 | BJ | ug/L | 27 |
| 005 | MW-5 | Aqueous | Vanadium | 6020A | 4.6 | J | ug/L | 27 |
| 005 | MW-5 | Aqueous | Zinc | 6020A | 34 | B | ug/L | 27 |
| 006 | MW-6 | Aqueous | Arsenic | 6020A | 1.1 | B | ug/L | 31 |
| 006 | MW-6 | Aqueous | Barium | 6020A | 110 | | ug/L | 31 |
| 006 | MW-6 | Aqueous | Beryllium | 6020A | 0.18 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Cadmium | 6020A | 0.48 | | ug/L | 31 |
| 006 | MW-6 | Aqueous | Cobalt | 6020A | 4.2 | J | ug/L | 31 |

# Executive Summary (Continued)

## Lot Number: PI16061

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 006 | MW-6 | Aqueous | Copper | 6020A | 4.0 | B | ug/L | 31 |
| 006 | MW-6 | Aqueous | Lead | 6020A | 0.30 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Nickel | 6020A | 1.2 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Silver | 6020A | 0.014 | BJ | ug/L | 31 |
| 006 | MW-6 | Aqueous | Vanadium | 6020A | 2.3 | J | ug/L | 31 |
| 006 | MW-6 | Aqueous | Zinc | 6020A | 45 | B | ug/L | 31 |
| 007 | MW-7A | Aqueous | Benzene | 8260B | 6.9 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Chlorobenzene | 8260B | 0.59 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | Chloroethane | 8260B | 4.0 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,4-Dichlorobenzene | 8260B | 6.3 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,1-Dichloroethane | 8260B | 34 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,1-Dichloroethene | 8260B | 0.20 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | cis-1,2-Dichloroethene | 8260B | 91 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | trans-1,2-Dichloroethene | 8260B | 0.45 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | 1,2-Dichloropropane | 8260B | 0.46 | J | ug/L | 33 |
| 007 | MW-7A | Aqueous | Methylene chloride | 8260B | 1.2 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Tetrachloroethene | 8260B | 14 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Trichloroethene | 8260B | 18 | | ug/L | 33 |
| 007 | MW-7A | Aqueous | Vinyl chloride | 8260B | 6.8 | | ug/L | 34 |
| 007 | MW-7A | Aqueous | Arsenic | 6020A | 0.67 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Barium | 6020A | 140 | | ug/L | 35 |
| 007 | MW-7A | Aqueous | Cadmium | 6020A | 0.28 | | ug/L | 35 |
| 007 | MW-7A | Aqueous | Cobalt | 6020A | 1.3 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Copper | 6020A | 0.81 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Lead | 6020A | 0.092 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Nickel | 6020A | 1.8 | J | ug/L | 35 |
| 007 | MW-7A | Aqueous | Silver | 6020A | 0.023 | BJ | ug/L | 35 |
| 007 | MW-7A | Aqueous | Zinc | 6020A | 54 | B | ug/L | 35 |
| 007 | MW-7A | Aqueous | Mercury | 7470A | 0.000039 | J | mg/L | 36 |
| 008 | MW-7B | Aqueous | Benzene | 8260B | 5.4 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Chlorobenzene | 8260B | 0.55 | J | ug/L | 37 |
| 008 | MW-7B | Aqueous | Chloroethane | 8260B | 3.6 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,4-Dichlorobenzene | 8260B | 6.3 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,1-Dichloroethane | 8260B | 33 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | cis-1,2-Dichloroethene | 8260B | 97 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | trans-1,2-Dichloroethene | 8260B | 0.43 | J | ug/L | 37 |
| 008 | MW-7B | Aqueous | 1,2-Dichloropropane | 8260B | 0.48 | J | ug/L | 37 |
| 008 | MW-7B | Aqueous | Tetrachloroethene | 8260B | 5.5 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Trichloroethene | 8260B | 21 | | ug/L | 37 |
| 008 | MW-7B | Aqueous | Vinyl chloride | 8260B | 6.5 | | ug/L | 38 |
| 008 | MW-7B | Aqueous | Arsenic | 6020A | 0.70 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Barium | 6020A | 150 | | ug/L | 39 |
| 008 | MW-7B | Aqueous | Cadmium | 6020A | 0.98 | | ug/L | 39 |
| 008 | MW-7B | Aqueous | Cobalt | 6020A | 0.45 | J | ug/L | 39 |
| 008 | MW-7B | Aqueous | Copper | 6020A | 2.6 | B | ug/L | 39 |
| 008 | MW-7B | Aqueous | Lead | 6020A | 0.072 | BJ | ug/L | 39 |
| 008 | MW-7B | Aqueous | Nickel | 6020A | 1.7 | J | ug/L | 39 |
| 008 | MW-7B | Aqueous | Silver | 6020A | 0.028 | BJ | ug/L | 39 |

# Executive Summary (Continued)

## Lot Number: PI16061

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 008 | MW-7B | Aqueous | Zinc | 6020A | 66 | B | ug/L | 39 |
| 008 | MW-7B | Aqueous | Mercury | 7470A | 0.000061 | J | mg/L | 40 |
| 009 | MW-8A | Aqueous | Arsenic | 6020A | 0.82 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Barium | 6020A | 14 | | ug/L | 43 |
| 009 | MW-8A | Aqueous | Cadmium | 6020A | 0.41 | | ug/L | 43 |
| 009 | MW-8A | Aqueous | Cobalt | 6020A | 0.056 | J | ug/L | 43 |
| 009 | MW-8A | Aqueous | Copper | 6020A | 1.1 | B | ug/L | 43 |
| 009 | MW-8A | Aqueous | Lead | 6020A | 0.074 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Nickel | 6020A | 0.52 | J | ug/L | 43 |
| 009 | MW-8A | Aqueous | Silver | 6020A | 0.028 | BJ | ug/L | 43 |
| 009 | MW-8A | Aqueous | Zinc | 6020A | 14 | B | ug/L | 43 |
| 010 | MW-8B | Aqueous | Barium | 6020A | 1100 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Beryllium | 6020A | 3.8 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Cadmium | 6020A | 1.6 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Chromium | 6020A | 5.8 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Cobalt | 6020A | 41 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Copper | 6020A | 15 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Lead | 6020A | 12 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Nickel | 6020A | 5.8 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Selenium | 6020A | 3.4 | J | ug/L | 47 |
| 010 | MW-8B | Aqueous | Silver | 6020A | 0.35 | BJ | ug/L | 47 |
| 010 | MW-8B | Aqueous | Vanadium | 6020A | 74 | | ug/L | 47 |
| 010 | MW-8B | Aqueous | Zinc | 6020A | 550 | B | ug/L | 47 |
| 010 | MW-8B | Aqueous | Mercury | 7470A | 0.000054 | J | mg/L | 48 |
| 011 | MW-9 | Aqueous | Arsenic | 6020A | 0.59 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Barium | 6020A | 79 | | ug/L | 51 |
| 011 | MW-9 | Aqueous | Beryllium | 6020A | 0.033 | J | ug/L | 51 |
| 011 | MW-9 | Aqueous | Cadmium | 6020A | 0.37 | | ug/L | 51 |
| 011 | MW-9 | Aqueous | Cobalt | 6020A | 1.1 | J | ug/L | 51 |
| 011 | MW-9 | Aqueous | Copper | 6020A | 1.6 | B | ug/L | 51 |
| 011 | MW-9 | Aqueous | Lead | 6020A | 0.34 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Nickel | 6020A | 5.6 | | ug/L | 51 |
| 011 | MW-9 | Aqueous | Silver | 6020A | 0.029 | BJ | ug/L | 51 |
| 011 | MW-9 | Aqueous | Zinc | 6020A | 34 | B | ug/L | 51 |
| 012 | SW-1 | Aqueous | Arsenic | 6020A | 0.87 | BJ | ug/L | 55 |
| 012 | SW-1 | Aqueous | Barium | 6020A | 33 | | ug/L | 55 |
| 012 | SW-1 | Aqueous | Cadmium | 6020A | 0.073 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Cobalt | 6020A | 0.15 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Copper | 6020A | 1.1 | B | ug/L | 55 |
| 012 | SW-1 | Aqueous | Lead | 6020A | 0.078 | BJ | ug/L | 55 |
| 012 | SW-1 | Aqueous | Nickel | 6020A | 0.61 | J | ug/L | 55 |
| 012 | SW-1 | Aqueous | Zinc | 6020A | 15 | B | ug/L | 55 |
| 013 | SW-2 | Aqueous | 1,1-Dichloroethane | 8260B | 0.26 | J | ug/L | 57 |
| 013 | SW-2 | Aqueous | cis-1,2-Dichloroethene | 8260B | 0.61 | J | ug/L | 57 |
| 013 | SW-2 | Aqueous | Arsenic | 6020A | 0.88 | BJ | ug/L | 59 |
| 013 | SW-2 | Aqueous | Barium | 6020A | 44 | | ug/L | 59 |
| 013 | SW-2 | Aqueous | Cobalt | 6020A | 0.46 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Copper | 6020A | 1.1 | B | ug/L | 59 |

# Executive Summary (Continued)

## Lot Number: PI16061

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|---|---|---|---|---|---|---|---|---|
| 013 | SW-2 | Aqueous | Nickel | 6020A | 0.77 | J | ug/L | 59 |
| 013 | SW-2 | Aqueous | Silver | 6020A | 0.015 | BJ | ug/L | 59 |
| 013 | SW-2 | Aqueous | Zinc | 6020A | 17 | B | ug/L | 59 |

(192 detections)

# SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

**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

**Number** 40908

| | | | |
|---|---|---|---|
| Client: Buxton Environmental Inc | Report to Contact: Ross Klingman | Telephone No. / E-mail: 704-344-1450 | Quote No. |
| Address: 1101 South Blvd, Ste 14 | Sampler's Signature: X [signature] | Analysis (Attach list if more space is needed) | Page 1 of 1 |
| City: Charlotte; State: NC; Zip Code: 28203 | Printed Name | | PI16061 |
| Project Name: Alamance Co - Swepsonville Landfill | | | |
| Project No.: NC; P.O. No. | | | |

| Sample ID / Description (Containers for each sample may be combined on one line.) | Date | Time | Grab/Composite | Matrix: Aqueous | Matrix: Solid | Matrix: Non-Aqueous | No of Containers by Preservative Type: Unpres | HNO3 | HCl | NaOH | NaOH | 5035 kit | App I VOCs | App I metals w/ Hg | Remarks / Cooler I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 9-15-14 | 14:00 | 6 | ✓ | | | | | | | | | X | X | |
| MW-2 | " | 16:15 | 6 | ✓ | | | | | | | | | X | X | |
| MW-3 | " | 16:30 | 6 | ✓ | | | | | | | | | X | X | |
| MW-4 | " | 17:15 | 6 | ✓ | | | | | | | | | X | X | |
| MW-5 | " | 17:30 | 6 | ✓ | | | | | | | | | X | X | |
| MW-6 | " | 14:45 | 6 | ✓ | | | | | | | | | X | X | |
| MW-7A | " | 15:30 | 6 | ✓ | | | | | | | | | X | X | |
| MW-7B | " | 15:15 | 6 | ✓ | | | | | | | | | X | X | |
| MW-8A | " | 15:45 | 6 | ✓ | | | | | | | | | X | X | |
| MW-8B | " | 16:00 | 6 | ✓ | | | | | | | | | X | X | |
| MW-9 | " | 14:30 | 6 | ✓ | | | | | | | | | X | X | |
| SW-1 | " | 15:00 | 6 | ✓ | | | | | | | | | X | X | |
| SW-2 | " | 16:45 | 6 | ✓ | | | | | | | | | X | X | |
| Trip Blank | — | — | 6 | ✓ | | | | | | | | | 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 + J+B Flag

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished by [signature] | 9-16-14 | 10:00 | 1. Received by SECURE AREA | 9/16/14 | 1000 |
| 2. Relinquished by SECURE AREA | 9/16/14 | 1318 | 2. Received by [signature] | 9/16/14 | 1318 |
| 3. Relinquished by [signature] | 9/16/14 | 1445 | 3. Received by Mike Chapman | 9.16.14 | 1445 |
| 4. Relinquished by Mike Chapman | 9.16.14 | 1535 | 4. Laboratory received by [signature] | 9/16/14 | 1535 |

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. 2.5 °C

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

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 15

Page 1 of 1
Replaces Date: 03/07/14
Effective Date: 07/15/14

# Sample Receipt Checklist (SRC)

Client: Boxton Cooler Inspected by/date: mcm / 09/16/14 Lot #: R1160641

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:
7S2/2.4/2.5 °C ___/___/___ °C ___/___/___ °C ___/___/___ °C
Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: #3 IR Gun Correction Factor: 0.1 °C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

| | | | |
|---|---|---|---|
| Yes ☐ | No ☐ | NA ☑ | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.) |
| Yes ☐ | No ☐ | NA ☑ | 4. Is the commercial courier's packing slip attached to this form? |
| Yes ☐ | No ☐ | | 5. Were proper custody procedures (relinquished/received) followed? |
| Yes ☐ | No ☐ | NA ☑ | 5a Were samples relinquished by client to commercial courier? |
| Yes ☑ | No ☐ | | 6. Were sample IDs listed on the COC? |
| Yes ☑ | No ☐ | | 7. Were sample IDs listed on all sample containers? |
| Yes ☑ | No ☐ | | 8. Was collection date & time listed on the COC? |
| Yes ☑ | No ☐ | | 9. Was collection date & time listed on all sample containers? |
| Yes ☑ | No ☐ | | 10. Did all container label information (ID, date, time) agree with the COC? |
| Yes ☑ | No ☐ | | 11. Were tests to be performed listed on the COC? |
| Yes ☑ | No ☐ | | 12. Did all samples arrive in the proper containers for each test? |
| Yes ☑ | No ☐ | | 13. Did all containers arrive in good condition (unbroken, lids on, etc.)? |
| Yes ☑ | No ☐ | | 14. Was adequate sample volume available? |
| Yes ☑ | No ☐ | | 15. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| Yes ☐ | No ☑ | | 16. Were any samples containers missing? |
| Yes ☐ | No ☑ | | 17. Were there any excess samples not listed on COC? |
| Yes ☐ | No ☑ | NA ☐ | 18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials? |
| Yes ☑ | No ☐ | NA ☐ | 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2? |
| Yes ☐ | No ☐ | NA ☑ | 20. Were all cyanide and/or sulfide samples received at a pH >12? |
| Yes ☐ | No ☐ | NA ☑ | 21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine? |
| Yes ☐ | No ☐ | NA ☑ | 22. Were collection temperatures documented on the COC for NC samples? |
| Yes ☐ | No ☐ | NA ☑ | 23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS? |
| Yes ☐ | No ☑ | | 24. Was the quote number used taken from the container label? |

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

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

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

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

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____
Sample(s)_____were not received at a pH of <2 and were adjusted accordingly using SR#

Sample labels applied by: mcm Verified by: mcm Date: 9/16/14

Comments: