Semi-Annual Water Quality Monitoring Report

Prepared for

City of Albemarle Subtitle D Lined MSWLF
Albemarle, North Carolina

July 2011

Permit Number: 84-01
MESCO Project Number: G11008.0

Submittal date: October 7, 2011

P.O. BOX 97
Garner, NC 27529
License No. C-0281

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

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):

Municipal Engineering Services Co., PA

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

Name: Jonathan Pfohl Phone: (919)772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
City of Albemarle Subtitle D Lined MSWLF, Phases 1 & 2	40592-B Stoney Gap Road Albemarle, NC 28002	84-01	.1600	July 12 & 13, 2011

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.

Madeline German, PG — Geologist — (919) 772-5393

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

Madeline G — 10-7-2011

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2275 GEOLOGIST MADELINE GERMAN

P.O. BOX 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

TABLE OF CONTENTS

SECTION

Introduction ..... Page 1
Sampling Procedures ..... Page 1
Field Parameter Data ..... Page 2
Laboratory Results ..... Page 2
Quality Control Samples ..... Page 2
Groundwater Samples ..... Page 2
Surfacewater Samples ..... Page 2
Leachate Samples ..... Page 2
Groundwater and Surfacewater Characterization ..... Page 3
Findings ..... Page 3
Closing ..... Page 3

FIGURES

Topographic Map with Site Location ..... Plate 1
Potentiometric Map of Uppermost Aquifer ..... Plate 2

TABLES

Sampling and Analysis Summary ..... Table 1
Detections in Water Samples above SWSL, GWP, 2L, or 2B (Appendix I) ..... Table 2
Detections in Water Samples above MDL (Appendix II Exclusive) ..... Table 3
Detections in Leachate Samples above SWSL, GWP or 2L ..... Table 4
Hydrogeologic Properties at Monitoring Well Locations ..... Table 5
Field Observations of Monitoring Locations ..... Table 6
Field Parameter Data Summary ..... Table 7

APPENDICIES

Laboratory Analysis Report and Chains of Custody ..... Appendix A
Field Sampling Parameter Data Sheet(s) ..... Appendix B
Well Abandonment Record ..... Appendix C

OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

Municipal Services

Engineering Company, P.A.

October 7, 2011

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources (NCDENR)
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Semi-Annual Water Quality Monitoring Report
City of Albemarle Subtitle D Lined MSWLF, Phases 1 & 2
Permit No. 84-01
MESCO Project No. G11008.0

Dear Mr. Lane:

Introduction

The City of Albemarle Subtitle D Lined Municipal Solid Waste Landfill (MSWLF), located in Stanley County NC, currently operating under permit #84-01, is required to submit semi-annual compliance reports as a condition of the water quality monitoring program. The lined MSWLF is comprised of two contiguous phases (1& 2) which are combined and treated as a single unit for continuity in this report. Municipal Engineering Services Company, P.A. (MESCO) of Garner NC performed this sampling event on July 12 & 13, 2011 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations as promulgated in 15A NCAC 13B.1600. Water quality monitoring has been performed semi-annually, since commencing operations in 1999. Portions of the facility, downgradient of Phase 1 and the leachate lagoon, have been under assessment monitoring since July 2009. The subset of assessment monitoring wells, analyzed for Appendix II constituents, were chosen during a meeting between MESCO and Mr. Ervin Lane of the SWS on July 14, 2009. An upgradient piezometer P2-8, a remnant from the Phase 2 hydrogeologic design study, was abandoned on July 13, 2011 per 15A NCAC 2C.0113 (d) and the well abandonment record is presented in **Appendix C.** The site location topographic map is depicted on **Plate 1**.

As specified in 15A NCAC 13B.1632(j) and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. Detection tables, hyrdrogeologic properties table, a field observations table, field parameter data results, potentiometric map, quality assurance/quality control data, and laboratory analytical data results with chain-of-custody (C-O-C) are included.

Sampling Procedure

MESCO performed this sampling event utilizing portable monitoring methodology in accordance with the approved Sampling and Analysis Plan (SAP) contained in the *Hydrogeologic Design Study* for Phase 2 revised April 22, 2009. Eleven samples from downgradient groundwater monitoring wells (MW-13, MW-14, MW-15, MW-16S, MW-16D, MW-17, MW-18, MW-22, MW-23, MW-26, and MW-27), one background well (MW-19), four surface water points (SW-1, SW-2, SW-6 and SW-7) and a leachate sample (LAGOON) were collected for analysis. Quality control measures were implemented during this event which included submittal and subsequent quantification of blanks (equipment blank (EB), field blank (FB) and travel blank (TB)). Monitoring locations are shown on the single-day potentiometric map, formulated for the entire facility, on **Plate 2**.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Table 6 documents monitoring location function, integrity and maintenance performed. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was utilized to adequately purge the wells to a minimum of three times the volume of standing water in the well or until dry. During purging, field parameters dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), and visual turbidity were recorded in addition to pH, specific conductance and temperature. The samples were placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were properly collected/separated based on likelihood of potential cross-contamination, kept on ice, and transported to a NC-certified laboratory under proper C-O-C protocol within the specified hold times for each analysis.

Field Parameter Data

A field parameter data summary is presented as **Table 7.** The field sampling data sheets are enclosed in **Appendix B**.

Laboratory Results

Environmental Conservation Laboratories (ENCO) of Cary, NC performed the laboratory analysis on the collected water samples for the Appendix I list of constituents. Appendix II monitoring was performed on MW-13, MW-16S, MW-16D, MW-23 and background well MW-19. A leachate sample collected from the invert to the lagoon (LAGOON) was analyzed for the required leachate parameters. A sampling and analysis table summarizing the locations, target parameters and laboratory methods is presented as **Table 1**.

Water samples were analyzed to the laboratory-established Method Detection Limits (MDL), which are at or below the current Solid Waste Section Limit (SWSL). **Table 2** summarizes constituents detected in groundwater and surface water samples above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the applicable Class C North Carolina Surface Water Standards (2B). **Table 3** summarizes Appendix II exclusive constituents detected above the MDL. **Table 4** summarizes the constituents detected in the leachate lagoon samples. Laboratory results and C-O-Cs are presented in **Appendix B**.

Quality Control Samples

A few constituents were detected in EB and FB in low non-quantifiable ("j" qualifier) concentrations. Although these blank qualified detections were identified, it appears the data set's validity is not effected by false positives or high bias attributed to field and/or laboratory artifact contamination.

Groundwater Samples

Total metals were detected in concentrations above their respective 2L Standard in samples collected from MW-13 (arsenic, chromium), MW-14 (cadmium), MW-22 (cadmium, chromium), MW-23 (arsenic), and MW-27 (cadmium). The VOCs benzene and vinyl chloride were detected in concentrations above their respective 2L Standard in samples collected from MW-13 and MW-23, located directly downgradient of the lined leachate lagoon.

Appendix II semi-volatile organic compounds Bis(2-ethylhexyl)phthalate and Di-n-octylphthalate were detected in concentrations above their respective SWSL in samples collected from MW-23; but neither were above established regulatory standards.

Surfacewater Samples

There were no target constituents detected in concentrations above the applicable 2B Standard in the surface water samples during this event.

Leachate Samples

The leachate sample (LAGOON) contained quantifiable concentrations of two VOCS and two metals. Detections in leachate samples are summarized in **Table 4**. Arsenic was the only constituent detected above the 2L Standard in groundwater samples that was also identified in a quantifiable concentration in the leachate sample. Leachate analysis remains consistent historically reported results.

Groundwater and Surface Water Characterization

A single-day potentiometric map of the uppermost aquifer, created from groundwater elevation data collected during this event, is included as **Plate 2.** Groundwater flow rates and directions were calculated based on collected data and are included in **Table 5**. Groundwater in the surficial aquifer flows in a general southwestern direction beneath Phases I and 2 and in a general northeastern direction beneath the lined leachate lagoon. The lined landfill is separated from the active C&D, closed unlined MSWLF and the lined leachate lagoon by Jacob's Creek which serves as the local discharge feature. The groundwater flow rates ranged from approximately <1 foot/year (MW-16S) to 134 feet/year (MW-26) averaging approximately 52 feet/year. The flow directions and gradients are consistent with historical observations. Streams located within the facility boundaries were visually observed with normal volume, flow and low turbidity.

Findings

The reported metal detections are likely not attributed to leachate but rather a product of natural deposit erosion.

The surface waters remain unimpacted as evidenced by the absence of constituents detected above applicable standards.

Appendix I VOCs benzene and vinyl chloride continue to persist in concentrations above the 2L Standard within the uppermost aquifer monitored by MW-13 and MW-23, located downgradient of the dual lined leachate lagoon on the south bank of upper Jacob's Creek. The creek remains unaffected as evidenced by the absence of VOC detections in samples collected from downstream surface point SW-6. MW-13 and MW-23 are located within the compliance boundary, in the center of the property, and the adjacent discharge feature is monitored therefore it is unlikely that the water quality has been compromised beyond the nearest property boundary, located more than 2,000 feet downstream.

Closing

Semi-annual water quality monitoring will continue at this facility and water sample collection is tentatively scheduled to be performed again in February 2012. If you have any questions regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or mgerman@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Jonathan Pfohl
Environmental Specialist

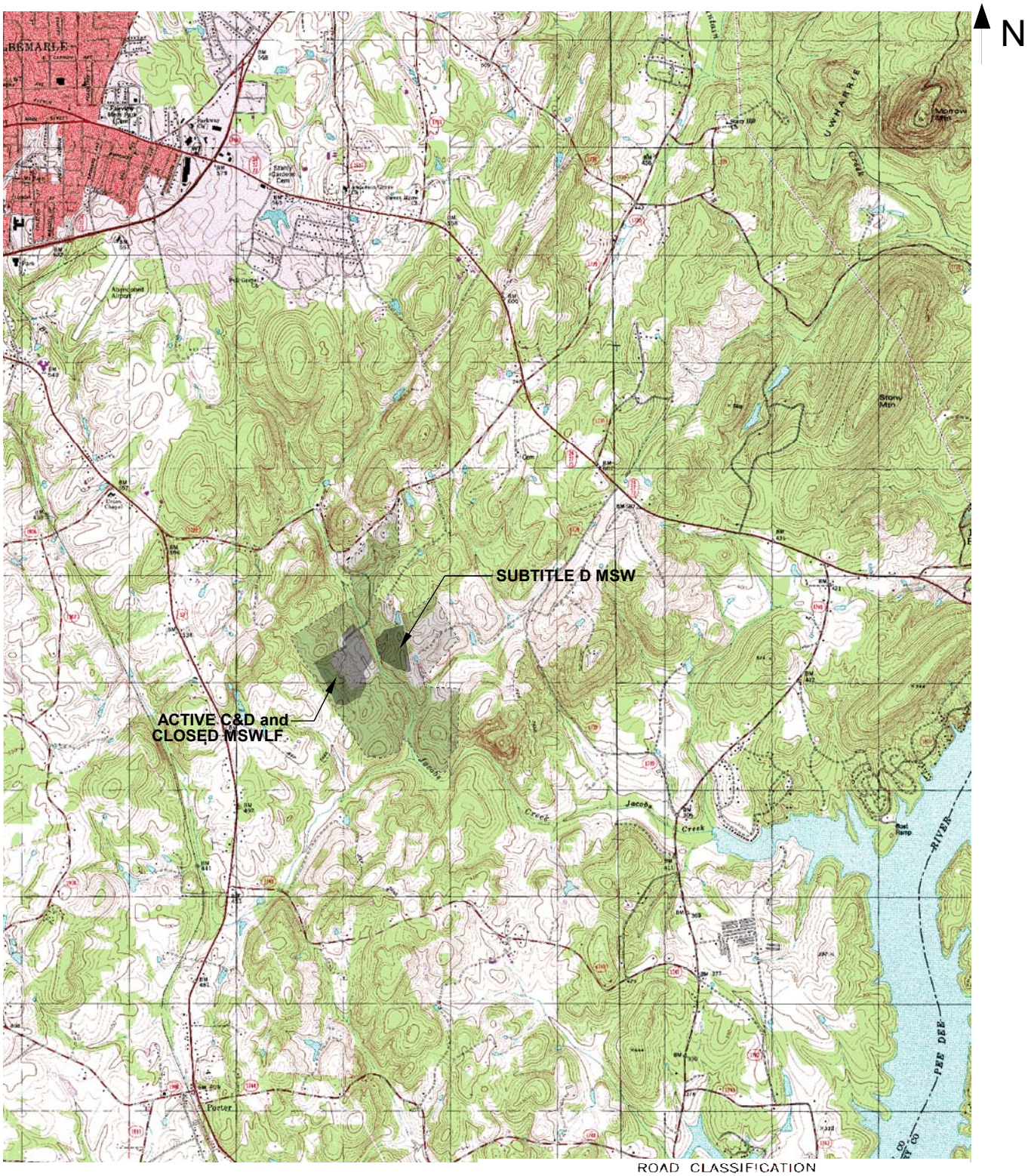
Madeline German, P.G.
Geologist

NORTH CAROLINA LICENSED SEAL 2275 10/7/2011 GEOLOGIST MADELINE GERMAN

Enclosures
cc: Mr. Mike Lambert
City of Albemarle

Figures

Topographic Map with Site Location
City of Albemarle North Carolina Landfill (84-01)



40592-B Stony Gap Rd (SR1720)
Albemarle, NC 28002
Lat:35-18-36.5208
Long:-80-09-00.8732
Northing:569789.00
Easting:1656854.52

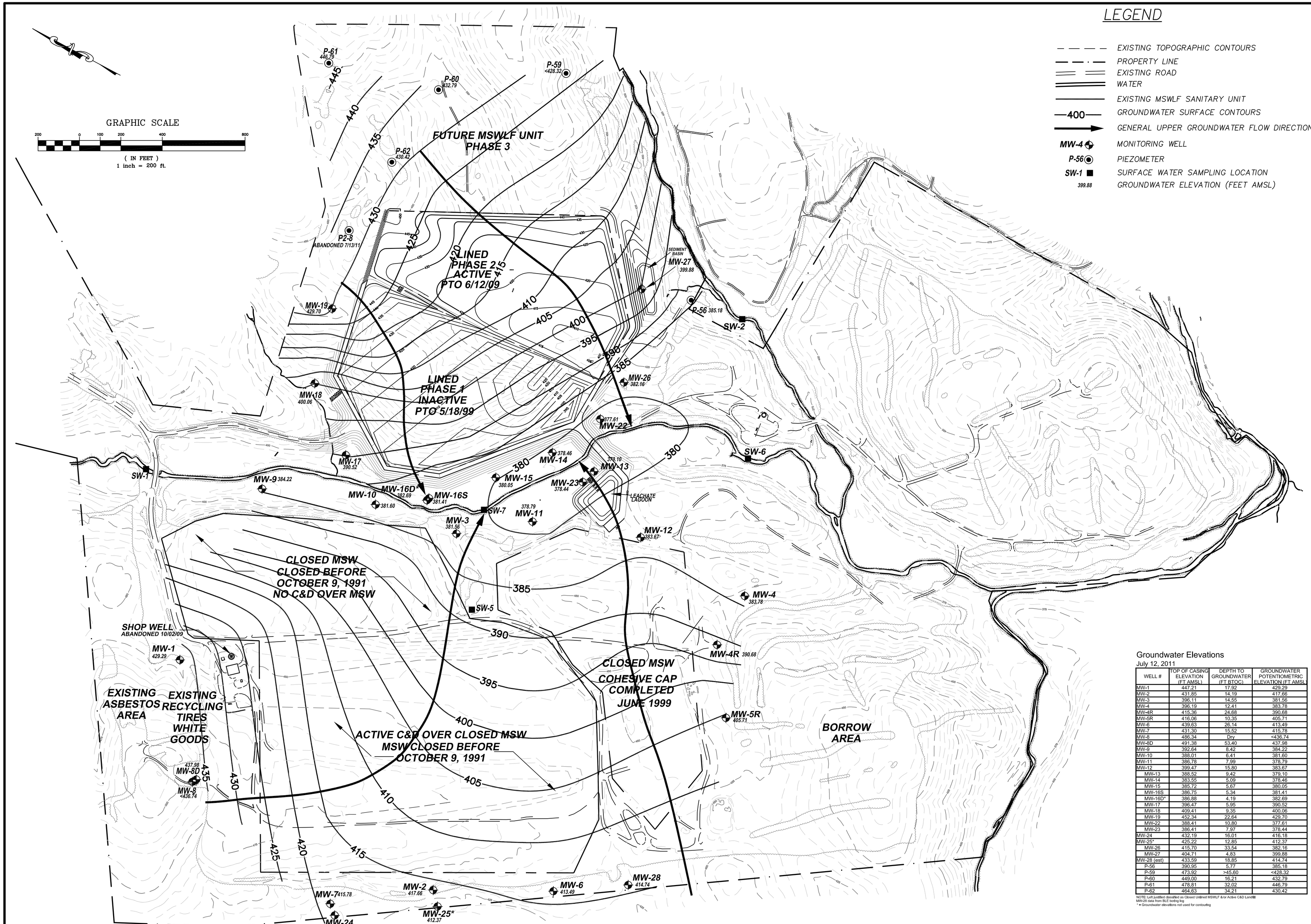
ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

NOTE: Topographical map assembled from corresponding USGS 7.5-min. quadrangles of the subject region.

1 0 1 MILE

PLATE 1



Groundwater Elevations
July 12, 2011

WELL #	TOP OF CASING ELEVATION (FT AMSL)	DEPTH TO GROUNDWATER (FT BTOC)	GROUNDWATER POTENTIOMETRIC ELEVATION (FT AMSL)
MW-1	447.21	17.92	429.29
MW-2	431.85	14.19	417.66
MW-3	396.11	14.55	381.56
MW-4	396.19	12.41	383.78
MW-4R	415.36	24.68	390.68
MW-5R	416.06	10.35	405.71
MW-6	439.63	26.14	413.49
MW-7	431.30	15.52	415.78
MW-8	486.34	Dry	<436.74
MW-8D	491.38	53.40	437.98
MW-9	392.64	8.42	384.22
MW-10	388.01	6.41	381.60
MW-11	386.78	7.99	378.79
MW-12	399.47	15.80	383.67
MW-13	388.52	9.42	379.10
MW-14	383.55	5.09	378.46
MW-15	385.72	5.67	380.05
MW-16S	386.75	5.34	381.41
MW-16D*	386.88	4.19	382.69
MW-17	396.47	5.95	390.52
MW-18	409.41	9.35	400.06
MW-19	452.34	22.64	429.70
MW-22	388.41	10.80	377.61
MW-23	386.41	7.97	378.44
MW-24	432.19	16.01	416.18
MW-25*	425.22	12.85	412.37
MW-26	415.70	33.54	382.16
MW-27	404.71	4.83	399.88
MW-28 (est)	433.59	18.85	414.74
P-56	390.95	5.77	385.18
P-59	473.92	>45.60	<428.32
P-60	449.00	16.21	432.79
P-61	478.81	32.02	446.79
P-62	464.63	34.21	430.42

NOTE: Left justified classified as Closed Unlined MSWLF &/or Active C&D Landfill
MW-28 data from BLE boring log
* = Groundwater elevations not used for contouring

PLATE 2

Municipal Engineering Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
LICENSE NUMBER: C-0281

ACTIVE SUBTILE D LINED MSWLF
ACTIVE C&D and CLOSED MSWLF
CITY OF ALBEMARLE
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

POTENTIOMETRIC MAP OF UPPERMOST AQUIFER

SCALE: 1" = 200'
DATE: 9/28/11
DRWN. BY: J. PFOHL
CHKD. BY: M. GERMAN
PROJECT NUMBER G11008.0
DRAWING NO. PLATE 2
SHEET NO. 1 OF 1

Tables

Table 1
Sampling and Analysis Summary
July 12 & 13, 2011

		App. I		App. II										Field Parameter							Leachate					
	Reason Not Sampled	VOCs	Total Metals	VOCs	Total Metals	Pesticides	Herbicides-Chlorinated	Polychlorinated biphenyl (PCB)	Semivolatile Organics (SVOCs)	Total Cyanide	Tin	Mercury	Sulfide	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity	Sulfate	pH	Phosphorus	BOD, 5 day	COD	Nitrate
		Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 8260B	Lab EPA 6000/7000	Lab EPA 8081B	Lab SW8151A	Lab EPA 8082A	Lab EPA 8270D	Lab EPA 9014	Lab EPA 6010C	Lab EPA 7470A	Lab SM18 4500-S D	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Visual	Lab ASTM D516-90	Lab SM 4500-H/B	Lab EPA365.4	Lab SM 5210B	Lab SM 5220D	Lab EPA 353.2
MW-13				x	x	x	x	x	x	x			x	x	x	x	x	x	x	x						
MW-14		x	x											x	x	x	x	x	x	x						
MW-15		x	x											x	x	x	x	x	x	x						
MW-16S				x	x	x	x	x	x	x			x	x	x	x	x	x	x	x						
MW-16D				x	x	x	x	x	x	x			x	x	x	x	x	x	x	x						
MW-17		x	x											x	x	x	x	x	x	x						
MW-18		x	x											x	x	x	x	x	x	x						
MW-19				x	x	x	x	x	x	x			x	x	x	x	x	x	x	x						
MW-22		x	x											x	x	x	x	x	x	x						
MW-23				x	x	x	x	x	x	x			x	x	x	x	x	x	x	x						
MW-26		x	x											x	x	x	x	x	x	x						
MW-27		x	x											x	x	x	x	x	x	x						
SW-1		x	x											x	x	x	x	x	x	x						
SW-2		x	x											x	x	x	x	x	x	x						
SW-6		x	x								x			x	x	x	x	x	x	x						
SW-7		x	x											x	x	x	x	x	x	x						
EB		x	x																							
FB		x	x																							
TB		x																								
LAGOON				x	x						x	x									x	x	x	x	x	x

App I & II = List from current 40 CFR 258

Table 2
Detections in Water Samples above SWSL, GWP, 2L or 2B (Appendix I)
July 12 & 13, 2011

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-13	**Arsenic Total**	**7/13/11**	**88.4**	**ug/L**	**2.80**	**10**	**10**			**78.4**	**N**
MW-13	Cobalt Total	7/13/11	159	ug/L	1.10	10			70	89	
MW-13	**Benzene**	**7/13/11**	**1.8**	**ug/L**	**0.68**	**1**	**1**			**0.8**	**L &/or LFG**
MW-13	**Vinyl chloride**	**7/13/11**	**2.5**	**ug/L**	**0.60**	**1**	**0.03**			**2.47**	**L &/or LFG**
MW-13	**Chromium Total**	**7/13/11**	**30.4**	**ug/L**	**1.00**	**10**	**10**			**20.4**	**N**
MW-13	Zinc Total	7/13/11	13.6	ug/L	3.80	10	1050				
MW-13	Barium Total	7/13/11	107	ug/L	1.00	100	700				
MW-13	Vanadium Total	7/13/11	5.07 j	ug/L	1.40	25			3.5	1.57	
MW-14	Vanadium Total	7/12/11	4.58 j	ug/L	1.40	25			3.5	1.08	
MW-14	**Cadmium Total**	**7/12/11**	**5.55**	**ug/L**	**0.360**	**1**	**1.75**			**3.8**	**N**
MW-15	Cadmium Total	7/12/11	1.45	ug/L	0.360	1	1.75				
MW-15	Zinc Total	7/12/11	15.8	ug/L	3.80	10	1050				
MW-15	Vanadium Total	7/12/11	11.6 j	ug/L	1.40	25			3.5	8.1	
MW-15	Copper Total	7/12/11	14.4	ug/L	1.60	10	1000				
MW-16D	Cobalt Total	7/13/11	54.7	ug/L	1.10	10			70		
MW-16D	Copper Total	7/13/11	15.1	ug/L	1.60	10	1000				
MW-16D	Vanadium Total	7/13/11	9.05 j	ug/L	1.40	25			3.5	5.55	
MW-16S	Copper Total	7/13/11	23.7	ug/L	1.60	10	1000				
MW-17	Cadmium Total	7/12/11	1.68	ug/L	0.360	1	1.75				
MW-17	Zinc Total	7/12/11	147	ug/L	3.80	10	1050				
MW-19	Zinc Total	7/13/11	11.6	ug/L	3.80	10	1050				
MW-22	Vanadium Total	7/12/11	20.5 j	ug/L	1.40	25			3.5	17	
MW-22	Copper Total	7/12/11	15.1	ug/L	1.60	10	1000				
MW-22	**Chromium Total**	**7/12/11**	**13**	**ug/L**	**1.00**	**10**	**10**			**3**	**N**
MW-22	**Cadmium Total**	**7/12/11**	**3.79**	**ug/L**	**0.360**	**1**	**1.75**			**2.04**	**N**
MW-22	Cobalt Total	7/12/11	28.2	ug/L	1.10	10			70		
MW-22	Zinc Total	7/12/11	15.8	ug/L	3.80	10	1050				
MW-23	**Arsenic Total**	**7/13/11**	**15.6**	**ug/L**	**2.80**	**10**	**10**			**5.6**	**N**
MW-23	Cobalt Total	7/13/11	26.4	ug/L	1.10	10			70		
MW-23	**Benzene**	**7/13/11**	**1.5**	**ug/L**	**0.68**	**1**	**1**			**0.5**	**L &/or LFG**
MW-23	**Vinyl chloride**	**7/13/11**	**3**	**ug/L**	**0.60**	**1**	**0.03**			**2.97**	**L &/or LFG**
MW-23	cis-1,2-Dichloroethene	7/13/11	17	ug/L	0.72	5	70				
MW-26	Zinc Total	7/12/11	12.8	ug/L	3.80	10	1050				
MW-26	Vanadium Total	7/12/11	7.77 j	ug/L	1.40	25			3.5	4.27	

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-27	Cobalt Total	7/12/11	17.2	ug/L	1.10	10					
MW-27	**Cadmium Total**	**7/12/11**	**4.88**	**ug/L**	**0.360**	**1**	**1.75**			**3.13**	**N**
MW-27	Vanadium Total	7/12/11	4.01 j	ug/L	1.40	25			3.5	0.51	
SW-2	Cadmium Total	7/12/11	2	ug/L	0.360	1		2			

[1] Table contains Appendix I constituents detected at or above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

[6] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable

N = Natural from erosion of natural deposits

L = Leachate

LFG = Landfill Gas

BOLD = Concentration > 2L, or 2B Standard

Table 3
Detections in Water Samples Above MDL (Appendix II Exclusive)
July 12 & 13, 2011

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance	Preliminary Cause [7]
MW-13	Tin, Total	7/13/11	3.65 j	ug/L	2.10	100	NE	NE		
MW-16S	Tin, Total	7/13/11	4.3 j	ug/L	2.10	100	NE	NE		
MW-16D	Tin, Total	7/13/11	3.88 j	ug/L	2.10	100	NE	NE		
MW-19	Tin, Total	7/13/11	4.27 j	ug/L	2.10	100	NE	NE		
MW-23	Bis(2-ethylhexyl)phthalate	7/13/11	18	ug/L	1.7	15	NE	NE		
MW-23	Tin, Total	7/13/11	4.67 j	ug/L	2.10	100	NE	NE		
MW-23	Di-n-octylphthalate	7/13/11	19	ug/L	3.1	10	140			

[1] Table contains detected App II exclusive constituents

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.

j =The reported value is estimated & between the laboratory MDL & the SWSL, adjusted for actual sample preparation data and moisture content.

NE = Not Established

BOLD = Concentration >2L, or 2B Standard

Table 4
Detections in Leachate Samples above SWSL, GWP, or 2L
July 14, 2011

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	GWP [5]	Exceedance
LAGOON	Tin, Total	7/14/11	7.11 j	ug/L	2.10	100	NE	NE	
LAGOON	Vanadium, Total	7/14/11	7.8 j	ug/L	1.40	25		3.5	4.3
LAGOON	**Arsenic Total**	**7/14/11**	**30.1**	**ug/L**	**2.80**	**10**	**10**		**20.1**
LAGOON	Zinc, Total	7/14/11	15.4	ug/L	3.80	10	1050		
LAGOON	Acetone	7/14/11	200	ug/L	1.2	100	6000		
LAGOON	Toluene	7/14/11	1.6	ug/L	0.85	1	600		
LAGOON	Phosphorus	7/14/11	460	ug/L	21	NE		NE	
LAGOON	COD	7/14/11	300000	ug/L	10000	NE		NE	
LAGOON	BOD	7/14/11	130000	ug/L	2000	NE		NE	

[1] Table contains only constituents detected above SWSL, GWP, or 2L

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard (Current as of Sampling Event)

[5] GWP = Groundwater Protection Standard (Current as of Sampling Event)

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.

NE = Not Established

BOLD = Concentration > 2L Standard (Current as of Sampling Event)

Table 5
Hydrogeologic Properties at Monitoring Well Locations
July 12, 2011

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient (ft/ft)	Linear Velocity (ft/yr)	Flow Direction	Depth to Groundwater (ft btoc)	Groundwater Potentiometric Elevation (ft amsl)	Screened Interval Lithology
MW-13	4.59E-04	15	0.01	23	N24E	9.42	379.10	Metatuff
MW-14	4.05E-04	15	0.05	132	S25W	5.09	378.46	Diabase Dike
MW-15	4.22E-03	20	0.004	93	S21W	5.67	380.05	Sandy Silt
MW-16S	3.95E-06	15	0.03	1	S31W	5.34	381.41	Argillite
MW-17	6.90E-06	15	0.04	2	S61W	5.95	390.52	Argillite
MW-18	5.66E-06	15	0.10	4	S54W	9.35	400.06	Argillite
MW-19	5.97E-06	15	0.06	2	S64W	22.64	429.70	Argillite
MW-22	3.26E-04	15	0.05	121	S22W	10.80	377.61	Argillite
MW-23	5.37E-05	15	0.01	5	N25E	7.97	378.44	Argillite
MW-26	3.66E-04	12	0.04	134	S23W	33.54	382.16	Argillite
MW-27	na	12	0.09	na	S11W	4.83	399.88	Saprolite
Minimum	3.95E-06	12	0.004	1	-	4.83	377.61	-
Average	5.85E-04	15	0.04	52	-	10.96	388.85	-
Maximum	4.22E-03	20	0.1	134	-	33.54	429.70	-

NOTE: Hydraulic conductivity values obtained from Slug Test analysis conducted by MESCO.
Hydrologic Gradient from water elevations recorded on July 12, 2011.
Effective porosity values from average geologic formation as shown in the table by (Hamill & Bell, 1986).
Average Linear Velocity (Q) is defined by the equation:

where $$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

K = hydraulic conductivity
n_e = effective porosity
dh = head difference
dl = horizontal distance

Table 6
Field Observations of Monitoring Locations
July 12-13, 2011

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Degree of Visual Turbidity of Collected Sample	Comments
MW-13	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-14	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-15	Yes	Yes	Yes	Yes	Yes	Yes	Slight	Slight Constriction. Hasp replaced
MW-16S	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-16D	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-17	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-18	Yes	Yes	Yes	Yes	Yes	Yes	Clear	County mowed new access path
MW-19	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-22	Yes	Yes	Yes	Yes	Yes	Yes	Moderate	County mowed new access path
MW-23	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-26	Yes	Yes	Yes	Yes	Yes	Yes	Moderate	
MW-27	Yes	Yes	Yes	Yes	Yes	Yes	Clear	Tag resecured with screws
SW-1	Yes	-	-	-	-	-	Clear	
SW-2	Yes	-	-	-	-	-	Clear	
SW-6	Yes	-	-	-	-	-	Clear	
SW-7	Yes	-	-	-	-	-	Clear	
LAGOON	Yes	-	-	-	-	-	Clear	Sample Collected from Ph 1 invert

Any unusual field conditions, observations, or events:

Access to wells maintained/improved by City over the past year.

Table 7
Field Parameter Data Summary
July 12-13, 2011

Parameter	Water Depth	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**uohms/cm**	**mg/L**	**Visual**
MW-13	9.42	379.10	388.52	15.7	-62	1.9	6.20	651	325	Clear
MW-14	5.09	378.46	383.55	15.0	41	1.7	6.18	594	274	Slight
MW-15	5.67	380.05	385.72	15.0	-10	0.9	6.38	394	195	Slight
MW-16S	5.34	381.41	386.75	17.4	4	0.7	6.57	440	219	Clear
MW-16D	4.19	382.69	386.88	15.8	25	1.0	6.11	372	185	Clear
MW-17	5.95	390.52	396.47	15.9	-90	1.3	6.60	236	117	Clear
MW-18	9.35	400.06	409.41	15.7	-19	1.6	6.83	96	43	Clear
MW-19	22.64	429.70	452.34	17.5	97	4.8	6.61	677	338	Clear
MW-22	10.80	377.61	388.41	16.3	134	2.6	5.77	200	99	Moderate
MW-23	7.97	378.44	386.41	16.0	12	1.3	5.92	545	272	Clear
MW-26	33.54	382.16	415.70	16.8	172	3.8	6.23	101	50	Moderate
MW-27	4.83	399.88	404.71	18.7	149	2.0	6.04	395	197	Clear
P-56	5.77	385.18	390.95	-	-	-	-	-	-	-
P-59	>45.60	<428.32	473.92	-	-	-	-	-	-	-
P-60	16.21	432.79	449.00	-	-	-	-	-	-	-
P-61	32.02	446.79	478.81	-	-	-	-	-	-	-
P-62	34.21	430.42	464.63	-	-	-	-	-	-	-
Minimum	4.19	377.61	383.55	15	-90	0.7	5.77	96	43	Clear
Average	13.31	397.2	414.25	16.3	38	2.0	6.29	392	193	Clear
Maximum	33.54	429.70	452.34	18.7	172	4.8	6.83	677	338	Moderate
SW-1	-	-	-	29.2	91	6.9	7.11	155	77	Clear
SW-2	-	-	-	26.5	53	6.3	6.98	204	102	Clear
SW-6	-	-	-	30.1	97	7.1	7.08	144	67	Clear
SW-7	-	-	-	29.8	103	7.2	7.10	138	61	Clear
Minimum	-	-	-	26.5	53	6.3	6.98	138	61	Clear
Average	-	-	-	28.9	86	6.9	7.07	160	77	Clear
Maximum	-	-	-	30.1	103	7.2	7.11	204	102	Clear

WLRs Taken from Below Top Of Casing on July 12, 2011

Appendix A
Laboratory Analysis Reports
Chains of Custody

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, July 28, 2011

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G10055.0, Project Name/Desc: Albemarle Lined MSWLF
ENCO Workorder: C108359

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 14, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 117.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-13 **Lab ID: C108359-01** **Sampled: 07/13/11 12:00** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/09/12		07/18/11	10:24	7/20/2011 11:19
EPA 6020A	01/09/12		07/15/11	12:03	7/19/2011 14:46
EPA 7470A	08/10/11		07/15/11	09:25	7/15/2011 15:02
EPA 8081B	07/20/11	08/25/11	07/16/11	05:32	7/18/2011 23:40
EPA 8082A	07/12/12	07/12/12	07/16/11	06:29	7/18/2011 23:40
EPA 8151A	07/20/11	08/24/11	07/15/11	14:00	7/19/2011 23:30
EPA 8260B	07/27/11		07/20/11	08:25	7/21/2011 07:33
EPA 8270D	07/20/11	08/23/11	07/14/11	11:50	7/21/2011 23:59
SM18 4500-S D	07/20/11		07/18/11	08:41	7/18/2011 09:01
SM4500-CN/E	07/27/11		07/19/11	10:58	7/20/2011 18:20

Client ID: MW-14 **Lab ID: C108359-02** **Sampled: 07/12/11 15:40** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:21
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 15:12
EPA 8260B	07/26/11	07/20/11	08:25	7/21/2011 08:03

Client ID: MW-15 **Lab ID: C108359-03** **Sampled: 07/12/11 16:45** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:23
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 15:16
EPA 8260B	07/26/11	07/20/11	08:25	7/21/2011 08:33

Client ID: MW-16S **Lab ID: C108359-04** **Sampled: 07/13/11 10:15** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/09/12		07/18/11	10:24	7/20/2011 11:32
EPA 6020A	01/09/12		07/15/11	12:03	7/19/2011 15:20
EPA 7470A	08/10/11		07/15/11	09:25	7/15/2011 15:05
EPA 8081B	07/20/11	08/25/11	07/16/11	05:32	7/18/2011 23:53
EPA 8082A	07/12/12	07/12/12	07/16/11	06:29	7/18/2011 23:53
EPA 8151A	07/20/11	08/24/11	07/15/11	14:00	7/19/2011 23:55
EPA 8260B	07/27/11		07/22/11	09:28	7/22/2011 16:16
EPA 8270D	07/20/11	08/23/11	07/14/11	11:50	7/22/2011 00:28
SM18 4500-S D	07/20/11		07/18/11	08:41	7/18/2011 09:01
SM4500-CN/E	07/27/11		07/19/11	10:58	7/20/2011 18:26

www.encolabs.com

Client ID: MW-16D	Lab ID: C108359-05	Sampled: 07/13/11 10:40	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/09/12		07/18/11	10:24	7/20/2011 10:50
EPA 6020A	01/09/12		07/15/11	12:03	7/19/2011 15:24
EPA 7470A	08/10/11		07/15/11	09:25	7/15/2011 15:08
EPA 8081B	07/20/11	08/25/11	07/16/11	05:32	7/19/2011 00:07
EPA 8082A	07/12/12	07/12/12	07/16/11	06:29	7/19/2011 00:07
EPA 8151A	07/20/11	08/24/11	07/15/11	14:00	7/20/2011 00:20
EPA 8260B	07/27/11		07/21/11	07:35	7/21/2011 16:03
EPA 8270D	07/20/11	08/23/11	07/14/11	11:50	7/22/2011 00:56
SM18 4500-S D	07/20/11		07/18/11	08:41	7/18/2011 09:01
SM4500-CN/E	07/27/11		07/19/11	14:59	7/20/2011 18:28

Client ID: MW-17	Lab ID: C108359-06	Sampled: 07/12/11 12:00	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:34
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 15:27
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 16:34

Client ID: MW-18	Lab ID: C108359-07	Sampled: 07/12/11 11:00	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:36
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 15:31
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 17:04

Client ID: MW-19	Lab ID: C108359-08	Sampled: 07/13/11 09:10	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/09/12		07/18/11	10:24	7/20/2011 11:38
EPA 6020A	01/09/12		07/15/11	12:03	7/19/2011 15:35
EPA 7470A	08/10/11		07/15/11	09:25	7/15/2011 15:11
EPA 8081B	07/20/11	08/25/11	07/16/11	05:32	7/19/2011 00:20
EPA 8082A	07/12/12	07/12/12	07/16/11	06:29	7/19/2011 00:20
EPA 8151A	07/20/11	08/24/11	07/15/11	14:00	7/20/2011 00:44
EPA 8260B	07/27/11		07/22/11	09:28	7/22/2011 16:47
EPA 8270D	07/20/11	08/23/11	07/14/11	11:50	7/22/2011 01:24
SM18 4500-S D	07/20/11		07/18/11	08:41	7/18/2011 09:01
SM4500-CN/E	07/27/11		07/19/11	14:59	7/20/2011 18:30

Client ID: MW-22	Lab ID: C108359-09	Sampled: 07/12/11 14:00	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:42
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 16:05
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 17:34

www.encolabs.com

Client ID: MW-23	Lab ID: C108359-10	Sampled: 07/13/11 11:30	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/09/12		07/18/11	10:24	7/20/2011 11:44
EPA 6020A	01/09/12		07/15/11	12:03	7/19/2011 16:08
EPA 7470A	08/10/11		07/15/11	09:25	7/15/2011 15:14
EPA 8081B	07/20/11	08/25/11	07/16/11	05:32	7/19/2011 00:46
EPA 8082A	07/12/12	07/12/12	07/16/11	06:29	7/19/2011 00:46
EPA 8151A	07/20/11	08/24/11	07/15/11	14:00	7/20/2011 01:09
EPA 8260B	07/27/11		07/21/11	07:35	7/21/2011 18:04
EPA 8270D	07/20/11	08/23/11	07/14/11	11:50	7/22/2011 01:53
SM18 4500-S D	07/20/11		07/18/11	08:41	7/18/2011 09:01
SM4500-CN/E	07/27/11		07/19/11	14:59	7/20/2011 18:33

Client ID: MW-26	Lab ID: C108359-11	Sampled: 07/12/11 14:40	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:46
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 16:12
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 18:34

Client ID: MW-27	Lab ID: C108359-12	Sampled: 07/12/11 13:35	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:48
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 16:16
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 19:04

Client ID: SW-2	Lab ID: C108359-13	Sampled: 07/12/11 15:05	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	01/08/12	07/18/11	10:24	7/20/2011 11:50
EPA 6020A	01/08/12	07/15/11	12:03	7/19/2011 16:20
EPA 8260B	07/26/11	07/21/11	07:35	7/21/2011 19:34

Client ID: LAGOON	Lab ID: C108359-14	Sampled: 07/14/11 08:10	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/11/11		07/19/11	09:58	7/20/2011 09:09
EPA 353.2	07/16/11	08:10	07/14/11	13:52	7/14/2011 13:52
EPA 353.2	08/11/11		07/17/11	14:47	7/18/2011 09:06
EPA 353.2	04/08/14		07/18/11	12:58	7/19/2011 10:15
EPA 365.4	08/11/11		07/22/11	11:17	7/26/2011 08:38
EPA 6010C	01/10/12		07/18/11	10:24	7/20/2011 11:52
EPA 6020A	01/10/12		07/15/11	12:03	7/19/2011 16:23
EPA 7470A	08/11/11		07/15/11	09:25	7/15/2011 15:17
EPA 8260B	07/28/11		07/21/11	07:35	7/21/2011 20:04
SM 5210B	07/16/11	08:10	07/15/11	15:33	7/15/2011 15:33
SM 5220D	08/11/11		07/19/11	11:44	7/19/2011 16:13
SM4500-H/B	07/14/11	08:24	07/19/11	12:25	7/19/2011 12:25

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-13 **Lab ID: C108359-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.92	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Acetone	5.9	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Arsenic - Total	88.4		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	107		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.8		1	0.68	1.0	1	ug/L	EPA 8260B	
Chloroethane	2.8	J	1	0.75	1.0	10	ug/L	EPA 8260B	
Chromium - Total	30.4		1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	4.0	J	1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	159		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.35	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	4.94	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	22.0	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	5.31	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Silver - Total	4.60	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Tin - Total	3.65	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Toluene	0.91	J	1	0.85	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	5.07	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	2.5		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	13.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-14 **Lab ID: C108359-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.40	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Arsenic - Total	7.50	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	6.26	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	5.55		1	0.360	1.00	1	ug/L	EPA 6010C	
Cobalt - Total	2.73	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	25.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	5.04	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	4.58	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.09	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-15 **Lab ID: C108359-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	5.54	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	32.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.45		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	8.63	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.05	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	14.4	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	4.95	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	4.22	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	11.6	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	15.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-16S **Lab ID: C108359-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.697	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	11.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: MW-16S **Lab ID: C108359-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cadmium - Total	0.431	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.42	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.97	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	23.7	B	1	1.60	10.0	10	ug/L	EPA 6010C	QB-01
Nickel - Total	11.3	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	2.58	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tin - Total	4.30	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Zinc - Total	8.91	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-16D **Lab ID: C108359-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.929	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	6.77	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	48.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.29	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	54.7		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	15.1	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	2.54	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	11.5	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.45	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tin - Total	3.88	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	9.05	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	9.90	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-17 **Lab ID: C108359-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.435	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	5.13	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	15.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.68		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.54	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.32	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.05	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	3.10	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.10	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.84	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Zinc - Total	147		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-18 **Lab ID: C108359-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.244	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	8.46	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.633	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.71	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.63	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.46	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	4.70	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.18	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	1.62	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	2.80	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	9.04	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-19 **Lab ID: C108359-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.696	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	6.52	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	11.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.918	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.47	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.21	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Lead - Total	4.19	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.48	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	7.80	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tin - Total	4.27	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	1.66	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	11.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-22 **Lab ID: C108359-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	8.84	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	33.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	3.79		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	13.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	28.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	15.1	B	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	4.41	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	11.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	2.82	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	20.5	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	15.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-23 **Lab ID: C108359-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.1	J	1	0.080	1.0	5	ug/L	EPA 8260B	
Arsenic - Total	15.6		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	47.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.5		1	0.68	1.0	1	ug/L	EPA 8260B	
Bis(2-ethylhexyl)phthalate	18		1	1.7	5.0	15	ug/L	EPA 8270D	
Chloroethane	2.5	J	1	0.75	1.0	10	ug/L	EPA 8260B	
Chromium - Total	3.13	J	1	1.00	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	17		1	0.72	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	26.4		1	1.10	10.0	10	ug/L	EPA 6010C	
Di-n-octylphthalate	19		1	3.1	10	10	ug/L	EPA 8270D	
Nickel - Total	18.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	6.53	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Tin - Total	4.67	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Vinyl chloride	3.0		1	0.60	1.0	1	ug/L	EPA 8260B	
Zinc - Total	5.92	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-26 **Lab ID: C108359-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.227	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.65	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	8.97	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: MW-26 **Lab ID: C108359-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cadmium - Total	0.554	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	6.70	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.62	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	8.04	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	2.89	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total	6.52	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	2.39	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	7.77	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	12.8		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-27 **Lab ID: C108359-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.73	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	33.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	4.88		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	3.49	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	17.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.32	JB	1	1.60	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	14.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Selenium - Total	4.09	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Vanadium - Total	4.01	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.16	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: SW-2 **Lab ID: C108359-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	14.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	2.00		1	0.360	1.00	1	ug/L	EPA 6010C	
Lead - Total	2.05	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Selenium - Total	3.22	J	1	0.830	1.00	10	ug/L	EPA 6020A	

Client ID: LAGOON **Lab ID: C108359-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
2-Butanone	97	J	1	1.3	5.0	100	ug/L	EPA 8260B	
2-Hexanone	3.1	J	1	0.88	5.0	50	ug/L	EPA 8260B	
4-Methyl-2-pentanone	2.8	J	1	1.1	5.0	100	ug/L	EPA 8260B	
Acetone	200		1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	1.18	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	30.1		1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	39.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	130000		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	300000		1	10000	10000	NE	ug/L	SM 5220D	
Chromium - Total	9.86	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	5.62	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	17.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
pH	7.9		1	1.0	1.0	NE	pH Units	SM4500-H/B	Q
Phosphorus	460		1	21	100	NE	ug/L	EPA 365.4	
Selenium - Total	7.35	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	17000	JD	2	40	10000	250000	ug/L	EPA 300.0	
Tin - Total	7.11	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Toluene	1.6		1	0.85	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	7.80	J	1	1.40	10.0	25	ug/L	EPA 6010C	

www.encolabs.com

Client ID:	LAGOON				Lab ID:	C108359-14			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Zinc - Total	15.4		1	3.80	10.0	10	ug/L	EPA 6010C	

www.encolabs.com

ANALYTICAL RESULTS

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 07:33	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.92**	J	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 07:33	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/21/11 07:33	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 07:33	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 07:33	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 07:33	jkg	
Acetone [67-64-1] ^	**5.9**	J	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 07:33	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/21/11 07:33	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/21/11 07:33	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 07:33	jkg	
Benzene [71-43-2] ^	**1.8**		ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 07:33	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 07:33	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 07:33	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 07:33	jkg	
Chloroethane [75-00-3] ^	**2.8**	J	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/21/11 07:33	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**4.0**	J	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 07:33	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/21/11 07:33	jkg	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 07:33	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/21/11 07:33	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/21/11 07:33	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/21/11 07:33	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/21/11 07:33	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/21/11 07:33	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Toluene [108-88-3] ^	**0.91**	J	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 07:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 07:33	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 07:33	jkg	
Vinyl chloride [75-01-4] ^	**2.5**		ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 07:33	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 07:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*1G20005*	*EPA 8260B*	*07/21/11 07:33*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G20005*	*EPA 8260B*	*07/21/11 07:33*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G20005*	*EPA 8260B*	*07/21/11 07:33*	*jkg*	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
1,3,5-Trinitrobenzene [99-35-4]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/21/11 23:59	DFM	QV-01
1,3-Dinitrobenzene [99-65-0]	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/21/11 23:59	DFM	
1,4-Naphthoquinone [130-15-4]	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
1-Naphthylamine [134-32-7]	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/21/11 23:59	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Acetylaminofluorene [53-96-3]	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/21/11 23:59	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/21/11 23:59	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Naphthylamine [91-59-8]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/21/11 23:59	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/21/11 23:59	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/21/11 23:59	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
3-Methylcholanthrene [56-49-5]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/21/11 23:59	DFM	
4-Aminobiphenyl [92-67-1]	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/21/11 23:59	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/21/11 23:59	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/21/11 23:59	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/21/11 23:59	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/21/11 23:59	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/21/11 23:59	DFM	
5-Nitro-o-toluidine [99-55-8]	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/21/11 23:59	DFM	QV-01
7,12-Dimethylbenz(a)anthracene [57-97-6]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
Acetophenone [98-86-2]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/21/11 23:59	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	QV-01
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/21/11 23:59	DFM	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/21/11 23:59	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/21/11 23:59	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Chlorobenzilate [510-15-6]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	QV-02
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Diallate [2303-16-4]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/21/11 23:59	DFM	
Dimethoate [60-51-5]	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/21/11 23:59	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Disulfoton [298-04-4]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/21/11 23:59	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/21/11 23:59	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/21/11 23:59	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/21/11 23:59	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/21/11 23:59	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Kepone [143-50-0]	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/21/11 23:59	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/21/11 23:59	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/21/11 23:59	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/21/11 23:59	DFM	
p-Dimethylaminoazobenzene [60-11-7]	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/21/11 23:59	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/21/11 23:59	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/21/11 23:59	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/21/11 23:59	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/21/11 23:59	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/21/11 23:59	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/21/11 23:59	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/21/11 23:59	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*71*	*1*	*100*	*71 %*	*10-179*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	
2-Fluorobiphenyl	*35*	*1*	*50.0*	*70 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	
2-Fluorophenol	*49*	*1*	*100*	*49 %*	*10-110*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	
Nitrobenzene-d5	*34*	*1*	*50.0*	*68 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*86 %*	*10-188*	*1G14001*	*EPA 8270D*	*07/21/11 23:59*	*DFM*	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
Aldrin [309-00-2] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
alpha-BHC [319-84-6] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
beta-BHC [319-85-7] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	07/18/11 23:40	MSZ	
delta-BHC [319-86-8] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
Dieldrin [60-57-1] ^	0.0020	U	ug/L	1	0.0020	0.050	0.075	EPA 8081B	07/18/11 23:40	MSZ	
Endosulfan I [959-98-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
Endosulfan II [33213-65-9] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.025	U	ug/L	1	0.025	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
Endrin [72-20-8] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
Endrin aldehyde [7421-93-4] ^	0.031	U	ug/L	1	0.031	0.050	0.1	EPA 8081B	07/18/11 23:40	MSZ	
gamma-BHC [58-89-9] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
Heptachlor [76-44-8] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/18/11 23:40	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.027	U	ug/L	1	0.027	0.050	0.075	EPA 8081B	07/18/11 23:40	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	07/18/11 23:40	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	07/18/11 23:40	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*44-134*	*1G16001*	*EPA 8081B*	*07/18/11 23:40*	*MSZ*	
Decachlorobiphenyl	*1.9*	*1*	*1.00*	*193 %*	*37-149*	*1G16001*	*EPA 8081B*	*07/18/11 23:40*	*MSZ*	*QS-06*

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	07/18/11 23:40	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	07/18/11 23:40	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	07/18/11 23:40	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	07/18/11 23:40	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	07/18/11 23:40	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	07/18/11 23:40	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*45-151*	*1G16002*	*EPA 8082A*	*07/18/11 23:40*	*MSZ*	
Decachlorobiphenyl	*1.9*	*1*	*1.00*	*193 %*	*42-159*	*1G16002*	*EPA 8082A*	*07/18/11 23:40*	*MSZ*	*QS-06*

www.encolabs.com

Description:	MW-13	**Lab Sample ID:**	C108359-01	**Received:**	07/14/11 15:00
Matrix:	Ground Water	**Sampled:**	07/13/11 12:00	**Work Order:**	C108359
Project:	Albemarle Lined MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:02	NLH	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 14:46	VLO	
Arsenic [7440-38-2] ^	**88.4**		ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:19	JDH	
Barium [7440-39-3] ^	**107**		ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:19	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:19	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:19	JDH	
Chromium [7440-47-3] ^	**30.4**		ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:19	JDH	
Cobalt [7440-48-4] ^	**159**		ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:19	JDH	
Copper [7440-50-8] ^	**8.35**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:19	JDH	J-01
Lead [7439-92-1] ^	**4.94**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:19	JDH	
Nickel [7440-02-0] ^	**22.0**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:19	JDH	
Selenium [7782-49-2] ^	**5.31**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 14:46	VLO	
Silver [7440-22-4] ^	**4.60**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:19	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 14:46	VLO	
Tin [7440-31-5] ^	**3.65**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 11:19	JDH	
Vanadium [7440-62-2] ^	**5.07**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:19	JDH	
Zinc [7440-66-6] ^	**13.6**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:19	JDH	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	3.9	U	ug/L	1	3.9	10	10	SM4500-CN/E	07/20/11 18:20	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	07/18/11 09:01	JOC	

www.encolabs.com

Description: MW-13 | **Lab Sample ID:** C108359-01 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	07/19/11 23:30	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/19/11 23:30	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/19/11 23:30	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	07/19/11 23:30	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	07/19/11 23:30	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*87 %*	*68-139*	*1G15004*	*EPA 8151A*	*07/19/11 23:30*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-14 | **Lab Sample ID:** C108359-02 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 15:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 08:03	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,1-Dichloroethane [75-34-3] ^	**0.40**	J	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 08:03	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 08:03	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 08:03	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 08:03	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 08:03	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 08:03	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 08:03	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 08:03	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 08:03	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 08:03	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 08:03	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 08:03	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 08:03	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 08:03	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 08:03	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 08:03	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 08:03	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:03	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 08:03	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 08:03	jkg	

www.encolabs.com

Description: MW-14 | **Lab Sample ID:** C108359-02 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 15:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 08:03	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G20005*	*EPA 8260B*	*07/21/11 08:03*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*1G20005*	*EPA 8260B*	*07/21/11 08:03*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*1G20005*	*EPA 8260B*	*07/21/11 08:03*	*jkg*	

www.encolabs.com

Description: MW-14 | **Lab Sample ID:** C108359-02 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 15:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:12	VLO	
Arsenic [7440-38-2] ^	**7.50**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Barium [7440-39-3] ^	**6.26**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:21	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:21	JDH	
Cadmium [7440-43-9] ^	**5.55**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:21	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Cobalt [7440-48-4] ^	**2.73**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Nickel [7440-02-0] ^	**25.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:21	JDH	
Selenium [7782-49-2] ^	**5.04**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:21	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:12	VLO	
Vanadium [7440-62-2] ^	**4.58**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:21	JDH	
Zinc [7440-66-6] ^	**6.09**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:21	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-15 | **Lab Sample ID:** C108359-03 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 16:45 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 08:33	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 08:33	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 08:33	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 08:33	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 08:33	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 08:33	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 08:33	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 08:33	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 08:33	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 08:33	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 08:33	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 08:33	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 08:33	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 08:33	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 08:33	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 08:33	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 08:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 08:33	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 08:33	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 08:33	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 08:33	jkg	

www.encolabs.com

Description: MW-15 | **Lab Sample ID:** C108359-03 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 16:45 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 08:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*1G20005*	*EPA 8260B*	*07/21/11 08:33*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*1G20005*	*EPA 8260B*	*07/21/11 08:33*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*1G20005*	*EPA 8260B*	*07/21/11 08:33*	*jkg*	

www.encolabs.com

Description: MW-15 | **Lab Sample ID:** C108359-03 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 16:45 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:16	VLO	
Arsenic [7440-38-2] ^	**5.54**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:23	JDH	
Barium [7440-39-3] ^	**32.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:23	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:23	JDH	
Cadmium [7440-43-9] ^	**1.45**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:23	JDH	
Chromium [7440-47-3] ^	**8.63**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:23	JDH	
Cobalt [7440-48-4] ^	**2.05**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:23	JDH	
Copper [7440-50-8] ^	**14.4**	B	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:23	JDH	J-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:23	JDH	
Nickel [7440-02-0] ^	**4.95**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:23	JDH	
Selenium [7782-49-2] ^	**4.22**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:16	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:23	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:16	VLO	
Vanadium [7440-62-2] ^	**11.6**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:23	JDH	
Zinc [7440-66-6] ^	**15.8**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:23	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-16S | **Lab Sample ID:** C108359-04 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 10:15 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 16:16	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 16:16	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/22/11 16:16	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 16:16	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 16:16	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 16:16	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 16:16	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/22/11 16:16	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/22/11 16:16	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 16:16	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 16:16	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 16:16	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 16:16	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 16:16	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/22/11 16:16	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 16:16	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/22/11 16:16	jkg	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 16:16	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/22/11 16:16	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/22/11 16:16	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/22/11 16:16	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/22/11 16:16	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/22/11 16:16	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 16:16	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 16:16	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 16:16	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 16:16	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 16:16	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*1G22004*	*EPA 8260B*	*07/22/11 16:16*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*1G22004*	*EPA 8260B*	*07/22/11 16:16*	*jkg*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*69-110*	*1G22004*	*EPA 8260B*	*07/22/11 16:16*	*jkg*	

www.encolabs.com

Description: MW-16S | **Lab Sample ID:** C108359-04 | **Received:** 07/14/11 15:00
Matrix: Ground Water | **Sampled:** 07/13/11 10:15 | **Work Order:** C108359
Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
1,3,5-Trinitrobenzene [99-35-4]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 00:28	DFM	QV-01
1,3-Dinitrobenzene [99-65-0]	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/22/11 00:28	DFM	
1,4-Naphthoquinone [130-15-4]	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
1-Naphthylamine [134-32-7]	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/22/11 00:28	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Acetylaminofluorene [53-96-3]	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/22/11 00:28	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/22/11 00:28	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Naphthylamine [91-59-8]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/22/11 00:28	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:28	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/22/11 00:28	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
3-Methylcholanthrene [56-49-5]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/22/11 00:28	DFM	
4-Aminobiphenyl [92-67-1]	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/22/11 00:28	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/22/11 00:28	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 00:28	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:28	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/22/11 00:28	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/22/11 00:28	DFM	
5-Nitro-o-toluidine [99-55-8]	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/22/11 00:28	DFM	QV-01
7,12-Dimethylbenz(a)anthracene [57-97-6]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
Acetophenone [98-86-2]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:28	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	QV-01
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 00:28	DFM	

www.encolabs.com

Description: MW-16S | **Lab Sample ID:** C108359-04 | **Received:** 07/14/11 15:00
Matrix: Ground Water | **Sampled:** 07/13/11 10:15 | **Work Order:** C108359
Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/22/11 00:28	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/22/11 00:28	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Chlorobenzilate [510-15-6]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	QV-02
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Diallate [2303-16-4]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/22/11 00:28	DFM	
Dimethoate [60-51-5]	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 00:28	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Disulfoton [298-04-4]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 00:28	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 00:28	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:28	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:28	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 00:28	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Kepone [143-50-0]	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/22/11 00:28	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/22/11 00:28	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/22/11 00:28	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:28	DFM	
p-Dimethylaminoazobenzene [60-11-7]	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:28	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 00:28	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 00:28	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:28	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:28	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:28	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:28	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 00:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*77*	*1*	*100*	*77 %*	*10-179*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	
2-Fluorophenol	*53*	*1*	*100*	*53 %*	*10-110*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*91 %*	*10-188*	*1G14001*	*EPA 8270D*	*07/22/11 00:28*	*DFM*	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
Aldrin [309-00-2] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
alpha-BHC [319-84-6] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
beta-BHC [319-85-7] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	07/18/11 23:53	MSZ	
delta-BHC [319-86-8] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
Dieldrin [60-57-1] ^	0.0020	U	ug/L	1	0.0020	0.050	0.075	EPA 8081B	07/18/11 23:53	MSZ	
Endosulfan I [959-98-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
Endosulfan II [33213-65-9] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.025	U	ug/L	1	0.025	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
Endrin [72-20-8] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
Endrin aldehyde [7421-93-4] ^	0.031	U	ug/L	1	0.031	0.050	0.1	EPA 8081B	07/18/11 23:53	MSZ	
gamma-BHC [58-89-9] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
Heptachlor [76-44-8] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/18/11 23:53	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.027	U	ug/L	1	0.027	0.050	0.075	EPA 8081B	07/18/11 23:53	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	07/18/11 23:53	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	07/18/11 23:53	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*44-134*	*1G16001*	*EPA 8081B*	*07/18/11 23:53*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*37-149*	*1G16001*	*EPA 8081B*	*07/18/11 23:53*	*MSZ*	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	07/18/11 23:53	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	07/18/11 23:53	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	07/18/11 23:53	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	07/18/11 23:53	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	07/18/11 23:53	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	07/18/11 23:53	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.74*	*1*	*1.00*	*74 %*	*45-151*	*1G16002*	*EPA 8082A*	*07/18/11 23:53*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*42-159*	*1G16002*	*EPA 8082A*	*07/18/11 23:53*	*MSZ*	

www.encolabs.com

Description:	MW-16S	**Lab Sample ID:**	C108359-04	**Received:**	07/14/11 15:00
Matrix:	Ground Water	**Sampled:**	07/13/11 10:15	**Work Order:**	C108359
Project:	Albemarle Lined MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:05	NLH	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.697**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:32	JDH	
Barium [7440-39-3] ^	**11.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:32	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:32	JDH	
Cadmium [7440-43-9] ^	**0.431**	J	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:32	JDH	
Chromium [7440-47-3] ^	**1.42**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:32	JDH	
Cobalt [7440-48-4] ^	**4.97**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:32	JDH	
Copper [7440-50-8] ^	**23.7**	B	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:32	JDH	QB-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:32	JDH	
Nickel [7440-02-0] ^	**11.3**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:32	JDH	
Selenium [7782-49-2] ^	**2.58**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:32	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:20	VLO	
Tin [7440-31-5] ^	**4.30**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 11:32	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:32	JDH	
Zinc [7440-66-6] ^	**8.91**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:32	JDH	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	3.9	U	ug/L	1	3.9	10	10	SM4500-CN/E	07/20/11 18:26	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	07/18/11 09:01	JOC	

www.encolabs.com

Description: MW-16S
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-04
Sampled: 07/13/11 10:15
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	07/19/11 23:55	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/19/11 23:55	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/19/11 23:55	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	07/19/11 23:55	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	07/19/11 23:55	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*103 %*	*68-139*	*1G15004*	*EPA 8151A*	*07/19/11 23:55*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 16:03	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 16:03	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/21/11 16:03	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 16:03	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 16:03	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 16:03	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 16:03	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/21/11 16:03	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/21/11 16:03	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 16:03	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 16:03	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 16:03	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 16:03	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 16:03	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/21/11 16:03	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 16:03	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/21/11 16:03	jkg	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 16:03	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/21/11 16:03	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/21/11 16:03	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/21/11 16:03	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/21/11 16:03	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/21/11 16:03	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 16:03	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 16:03	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 16:03	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 16:03	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 16:03	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 16:03*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 16:03*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 16:03*	*jkg*	

www.encolabs.com

Description: MW-16D | **Lab Sample ID:** C108359-05 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 10:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
1,3,5-Trinitrobenzene [99-35-4]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 00:56	DFM	QV-01
1,3-Dinitrobenzene [99-65-0]	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/22/11 00:56	DFM	
1,4-Naphthoquinone [130-15-4]	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
1-Naphthylamine [134-32-7]	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/22/11 00:56	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Acetylaminofluorene [53-96-3]	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/22/11 00:56	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/22/11 00:56	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Naphthylamine [91-59-8]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/22/11 00:56	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:56	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/22/11 00:56	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
3-Methylcholanthrene [56-49-5]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/22/11 00:56	DFM	
4-Aminobiphenyl [92-67-1]	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/22/11 00:56	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/22/11 00:56	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 00:56	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:56	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/22/11 00:56	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/22/11 00:56	DFM	
5-Nitro-o-toluidine [99-55-8]	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/22/11 00:56	DFM	QV-01
7,12-Dimethylbenz(a)anthracene [57-97-6]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
Acetophenone [98-86-2]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 00:56	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	QV-01
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 00:56	DFM	

www.encolabs.com

Description: MW-16D | **Lab Sample ID:** C108359-05 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 10:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/22/11 00:56	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/22/11 00:56	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Chlorobenzilate [510-15-6]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	QV-02
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Diallate [2303-16-4]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/22/11 00:56	DFM	
Dimethoate [60-51-5]	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 00:56	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Disulfoton [298-04-4]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 00:56	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 00:56	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:56	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:56	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 00:56	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Kepone [143-50-0]	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/22/11 00:56	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/22/11 00:56	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/22/11 00:56	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 00:56	DFM	
p-Dimethylaminoazobenzene [60-11-7]	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 00:56	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 00:56	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 00:56	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 00:56	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 00:56	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 00:56	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 00:56	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 00:56	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*84*	*1*	*100*	*84 %*	*10-179*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	
2-Fluorobiphenyl	*34*	*1*	*50.0*	*68 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	
2-Fluorophenol	*54*	*1*	*100*	*54 %*	*10-110*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*91 %*	*10-188*	*1G14001*	*EPA 8270D*	*07/22/11 00:56*	*DFM*	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
Aldrin [309-00-2] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
alpha-BHC [319-84-6] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
beta-BHC [319-85-7] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	07/19/11 00:07	MSZ	
delta-BHC [319-86-8] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
Dieldrin [60-57-1] ^	0.0020	U	ug/L	1	0.0020	0.050	0.075	EPA 8081B	07/19/11 00:07	MSZ	
Endosulfan I [959-98-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
Endosulfan II [33213-65-9] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.025	U	ug/L	1	0.025	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
Endrin [72-20-8] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
Endrin aldehyde [7421-93-4] ^	0.031	U	ug/L	1	0.031	0.050	0.1	EPA 8081B	07/19/11 00:07	MSZ	
gamma-BHC [58-89-9] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
Heptachlor [76-44-8] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:07	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.027	U	ug/L	1	0.027	0.050	0.075	EPA 8081B	07/19/11 00:07	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	07/19/11 00:07	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	07/19/11 00:07	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.69*	*1*	*1.00*	*69 %*	*44-134*	*1G16001*	*EPA 8081B*	*07/19/11 00:07*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*37-149*	*1G16001*	*EPA 8081B*	*07/19/11 00:07*	*MSZ*	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	07/19/11 00:07	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	07/19/11 00:07	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	07/19/11 00:07	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	07/19/11 00:07	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	07/19/11 00:07	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	07/19/11 00:07	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.69*	*1*	*1.00*	*69 %*	*45-151*	*1G16002*	*EPA 8082A*	*07/19/11 00:07*	*MSZ*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*42-159*	*1G16002*	*EPA 8082A*	*07/19/11 00:07*	*MSZ*	

www.encolabs.com

Description:	MW-16D	**Lab Sample ID:**	C108359-05	**Received:**	07/14/11 15:00
Matrix:	Ground Water	**Sampled:**	07/13/11 10:40	**Work Order:**	C108359
Project:	Albemarle Lined MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:08	NLH	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.929**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:24	VLO	
Arsenic [7440-38-2] ^	**6.77**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 10:50	JDH	
Barium [7440-39-3] ^	**48.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 10:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 10:50	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 10:50	JDH	
Chromium [7440-47-3] ^	**3.29**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 10:50	JDH	
Cobalt [7440-48-4] ^	**54.7**		ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 10:50	JDH	
Copper [7440-50-8] ^	**15.1**	B	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 10:50	JDH	J-01
Lead [7439-92-1] ^	**2.54**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 10:50	JDH	
Nickel [7440-02-0] ^	**11.5**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 10:50	JDH	
Selenium [7782-49-2] ^	**1.45**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:24	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 10:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:24	VLO	
Tin [7440-31-5] ^	**3.88**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 10:50	JDH	
Vanadium [7440-62-2] ^	**9.05**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 10:50	JDH	
Zinc [7440-66-6] ^	**9.90**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 10:50	JDH	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	3.9	U	ug/L	1	3.9	10	10	SM4500-CN/E	07/20/11 18:28	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	07/18/11 09:01	JOC	

www.encolabs.com

Description: MW-16D
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-05
Sampled: 07/13/11 10:40
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	07/20/11 00:20	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 00:20	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 00:20	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	07/20/11 00:20	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	07/20/11 00:20	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.0*	*1*	*2.00*	*98 %*	*68-139*	*1G15004*	*EPA 8151A*	*07/20/11 00:20*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-17 | **Lab Sample ID:** C108359-06 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 16:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 16:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 16:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 16:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 16:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 16:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 16:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 16:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 16:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 16:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 16:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 16:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 16:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 16:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 16:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 16:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 16:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 16:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 16:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 16:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 16:34	jkg	

www.encolabs.com

Description: MW-17 | **Lab Sample ID:** C108359-06 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 16:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*99 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 16:34*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 16:34*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 16:34*	*jkg*	

www.encolabs.com

Description: MW-17 | **Lab Sample ID:** C108359-06 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 12:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.435**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:27	VLO	
Arsenic [7440-38-2] ^	**5.13**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:34	JDH	
Barium [7440-39-3] ^	**15.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:34	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:34	JDH	
Cadmium [7440-43-9] ^	**1.68**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:34	JDH	
Chromium [7440-47-3] ^	**1.54**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:34	JDH	
Cobalt [7440-48-4] ^	**1.32**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:34	JDH	
Copper [7440-50-8] ^	**7.05**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:34	JDH	J-01
Lead [7439-92-1] ^	**3.10**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:34	JDH	
Nickel [7440-02-0] ^	**5.10**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:34	JDH	
Selenium [7782-49-2] ^	**1.84**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:34	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:27	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:34	JDH	
Zinc [7440-66-6] ^	**147**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:34	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-18 | **Lab Sample ID:** C108359-07 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 11:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 17:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 17:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 17:04	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 17:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 17:04	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 17:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 17:04	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 17:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 17:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 17:04	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 17:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 17:04	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 17:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 17:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 17:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 17:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 17:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 17:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 17:04	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 17:04	jkg	

www.encolabs.com

Description: MW-18 | **Lab Sample ID:** C108359-07 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 11:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 17:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 17:04*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 17:04*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 17:04*	*jkg*	

www.encolabs.com

Description: MW-18 | **Lab Sample ID:** C108359-07 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 11:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.244**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:36	JDH	
Barium [7440-39-3] ^	**8.46**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:36	JDH	
Cadmium [7440-43-9] ^	**0.633**	J	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:36	JDH	
Chromium [7440-47-3] ^	**2.71**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:36	JDH	
Cobalt [7440-48-4] ^	**3.63**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:36	JDH	
Copper [7440-50-8] ^	**6.46**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:36	JDH	J-01
Lead [7439-92-1] ^	**4.70**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:36	JDH	
Nickel [7440-02-0] ^	**3.18**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:36	JDH	
Selenium [7782-49-2] ^	**1.62**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:31	VLO	
Vanadium [7440-62-2] ^	**2.80**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:36	JDH	
Zinc [7440-66-6] ^	**9.04**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:36	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 16:47	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 16:47	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/22/11 16:47	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 16:47	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 16:47	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 16:47	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 16:47	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/22/11 16:47	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/22/11 16:47	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 16:47	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 16:47	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 16:47	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 16:47	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 16:47	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/22/11 16:47	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 16:47	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/22/11 16:47	jkg	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 16:47	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/22/11 16:47	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/22/11 16:47	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/22/11 16:47	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/22/11 16:47	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/22/11 16:47	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 16:47	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 16:47	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 16:47	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 16:47	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 16:47	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1G22004*	*EPA 8260B*	*07/22/11 16:47*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*68-117*	*1G22004*	*EPA 8260B*	*07/22/11 16:47*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G22004*	*EPA 8260B*	*07/22/11 16:47*	*jkg*	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
1,3,5-Trinitrobenzene [99-35-4]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 01:24	DFM	QV-01
1,3-Dinitrobenzene [99-65-0]	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/22/11 01:24	DFM	
1,4-Naphthoquinone [130-15-4]	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
1-Naphthylamine [134-32-7]	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/22/11 01:24	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Acetylaminofluorene [53-96-3]	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/22/11 01:24	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/22/11 01:24	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Naphthylamine [91-59-8]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/22/11 01:24	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:24	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/22/11 01:24	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
3-Methylcholanthrene [56-49-5]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/22/11 01:24	DFM	
4-Aminobiphenyl [92-67-1]	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/22/11 01:24	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/22/11 01:24	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 01:24	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:24	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/22/11 01:24	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/22/11 01:24	DFM	
5-Nitro-o-toluidine [99-55-8]	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/22/11 01:24	DFM	QV-01
7,12-Dimethylbenz(a)anthracene [57-97-6]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
Acetophenone [98-86-2]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:24	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	QV-01
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 01:24	DFM	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/22/11 01:24	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	07/22/11 01:24	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Chlorobenzilate [510-15-6]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	QV-02
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Diallate [2303-16-4]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/22/11 01:24	DFM	
Dimethoate [60-51-5]	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 01:24	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Disulfoton [298-04-4]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 01:24	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 01:24	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:24	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:24	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 01:24	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Kepone [143-50-0]	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/22/11 01:24	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/22/11 01:24	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/22/11 01:24	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:24	DFM	
p-Dimethylaminoazobenzene [60-11-7]	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:24	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 01:24	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 01:24	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:24	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:24	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:24	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:24	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 01:24	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*77*	*1*	*100*	*77 %*	*10-179*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	
2-Fluorobiphenyl	*34*	*1*	*50.0*	*69 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	
Nitrobenzene-d5	*35*	*1*	*50.0*	*69 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	
Phenol-d5	*47*	*1*	*100*	*47 %*	*10-88*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*101 %*	*10-188*	*1G14001*	*EPA 8270D*	*07/22/11 01:24*	*DFM*	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
Aldrin [309-00-2] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
alpha-BHC [319-84-6] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
beta-BHC [319-85-7] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	07/19/11 00:20	MSZ	
delta-BHC [319-86-8] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
Dieldrin [60-57-1] ^	0.0020	U	ug/L	1	0.0020	0.050	0.075	EPA 8081B	07/19/11 00:20	MSZ	
Endosulfan I [959-98-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
Endosulfan II [33213-65-9] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.025	U	ug/L	1	0.025	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
Endrin [72-20-8] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
Endrin aldehyde [7421-93-4] ^	0.031	U	ug/L	1	0.031	0.050	0.1	EPA 8081B	07/19/11 00:20	MSZ	
gamma-BHC [58-89-9] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
Heptachlor [76-44-8] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:20	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.027	U	ug/L	1	0.027	0.050	0.075	EPA 8081B	07/19/11 00:20	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	07/19/11 00:20	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	07/19/11 00:20	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*44-134*	*1G16001*	*EPA 8081B*	*07/19/11 00:20*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*37-149*	*1G16001*	*EPA 8081B*	*07/19/11 00:20*	*MSZ*	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	07/19/11 00:20	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	07/19/11 00:20	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	07/19/11 00:20	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	07/19/11 00:20	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	07/19/11 00:20	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	07/19/11 00:20	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*45-151*	*1G16002*	*EPA 8082A*	*07/19/11 00:20*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*42-159*	*1G16002*	*EPA 8082A*	*07/19/11 00:20*	*MSZ*	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:11	NLH	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.696**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 15:35	VLO	
Arsenic [7440-38-2] ^	**6.52**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Barium [7440-39-3] ^	**11.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:38	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:38	JDH	
Cadmium [7440-43-9] ^	**0.918**	J	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:38	JDH	
Chromium [7440-47-3] ^	**3.47**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Cobalt [7440-48-4] ^	**5.21**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Lead [7439-92-1] ^	**4.19**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Nickel [7440-02-0] ^	**2.48**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:38	JDH	
Selenium [7782-49-2] ^	**7.80**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 15:35	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:38	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 15:35	VLO	
Tin [7440-31-5] ^	**4.27**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 11:38	JDH	
Vanadium [7440-62-2] ^	**1.66**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:38	JDH	
Zinc [7440-66-6] ^	**11.6**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:38	JDH	

www.encolabs.com

Description: MW-19
Matrix: Ground Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-08
Sampled: 07/13/11 09:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	3.9	U	ug/L	1	3.9	10	10	SM4500-CN/E	07/20/11 18:30	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	07/18/11 09:01	JOC	

www.encolabs.com

Description: MW-19 | **Lab Sample ID:** C108359-08 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 09:10 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	07/20/11 00:44	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 00:44	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 00:44	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	07/20/11 00:44	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	07/20/11 00:44	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.00*	*76 %*	*68-139*	*1G15004*	*EPA 8151A*	*07/20/11 00:44*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-22 | **Lab Sample ID:** C108359-09 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 17:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 17:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 17:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 17:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 17:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 17:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 17:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 17:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 17:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 17:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 17:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 17:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 17:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 17:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 17:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 17:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 17:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 17:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 17:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 17:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 17:34	jkg	

www.encolabs.com

Description: MW-22 | **Lab Sample ID:** C108359-09 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 17:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 17:34*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 17:34*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 17:34*	*jkg*	

www.encolabs.com

Description: MW-22 | **Lab Sample ID:** C108359-09 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:00 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:05	VLO	
Arsenic [7440-38-2] ^	**8.84**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:42	JDH	
Barium [7440-39-3] ^	**33.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:42	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:42	JDH	
Cadmium [7440-43-9] ^	**3.79**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:42	JDH	
Chromium [7440-47-3] ^	**13.0**		ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:42	JDH	
Cobalt [7440-48-4] ^	**28.2**		ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:42	JDH	
Copper [7440-50-8] ^	**15.1**	B	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:42	JDH	J-01
Lead [7439-92-1] ^	**4.41**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:42	JDH	
Nickel [7440-02-0] ^	**11.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:42	JDH	
Selenium [7782-49-2] ^	**2.82**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:42	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:05	VLO	
Vanadium [7440-62-2] ^	**20.5**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:42	JDH	
Zinc [7440-66-6] ^	**15.8**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:42	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 18:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,1-Dichloroethane [75-34-3] ^	**3.1**	J	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 18:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/21/11 18:04	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 18:04	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 18:04	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 18:04	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 18:04	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/21/11 18:04	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/21/11 18:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 18:04	jkg	
Benzene [71-43-2] ^	**1.5**		ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 18:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 18:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 18:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 18:04	jkg	
Chloroethane [75-00-3] ^	**2.5**	J	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/21/11 18:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	**17**		ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 18:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/21/11 18:04	jkg	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 18:04	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/21/11 18:04	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/21/11 18:04	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/21/11 18:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/21/11 18:04	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/21/11 18:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 18:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 18:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 18:04	jkg	
Vinyl chloride [75-01-4] ^	**3.0**		ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 18:04	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 18:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 18:04*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 18:04*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 18:04*	*jkg*	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3]	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
1,3,5-Trinitrobenzene [99-35-4]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 01:53	DFM	QV-01
1,3-Dinitrobenzene [99-65-0]	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	07/22/11 01:53	DFM	
1,4-Naphthoquinone [130-15-4]	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
1,4-Phenylenediamine [106-50-3]	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
1-Naphthylamine [134-32-7]	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	07/22/11 01:53	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Acetylaminofluorene [53-96-3]	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	07/22/11 01:53	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	07/22/11 01:53	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Naphthylamine [91-59-8]	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	07/22/11 01:53	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:53	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	07/22/11 01:53	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
3-Methylcholanthrene [56-49-5]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	07/22/11 01:53	DFM	
4-Aminobiphenyl [92-67-1]	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	07/22/11 01:53	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	07/22/11 01:53	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 01:53	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:53	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	07/22/11 01:53	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	07/22/11 01:53	DFM	
5-Nitro-o-toluidine [99-55-8]	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	07/22/11 01:53	DFM	QV-01
7,12-Dimethylbenz(a)anthracene [57-97-6]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
Acetophenone [98-86-2]	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	07/22/11 01:53	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	QV-01
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	07/22/11 01:53	DFM	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	07/22/11 01:53	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	**18**		ug/L	1	1.7	5.0	15	EPA 8270D	07/22/11 01:53	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Chlorobenzilate [510-15-6]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	QV-02
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Diallate [2303-16-4]	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	6000	EPA 8270D	07/22/11 01:53	DFM	
Dimethoate [60-51-5]	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 01:53	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
Di-n-octylphthalate [117-84-0] ^	**19**		ug/L	1	3.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Disulfoton [298-04-4]	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	07/22/11 01:53	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 01:53	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:53	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:53	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 01:53	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Kepone [143-50-0]	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	07/22/11 01:53	DFM	QV-02
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	07/22/11 01:53	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	07/22/11 01:53	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	07/22/11 01:53	DFM	
p-Dimethylaminoazobenzene [60-11-7]	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	07/22/11 01:53	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	07/22/11 01:53	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	07/22/11 01:53	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	07/22/11 01:53	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	07/22/11 01:53	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	07/22/11 01:53	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	07/22/11 01:53	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	07/22/11 01:53	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*79*	*1*	*100*	*79 %*	*10-179*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*92 %*	*10-188*	*1G14001*	*EPA 8270D*	*07/22/11 01:53*	*DFM*	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
Aldrin [309-00-2] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
alpha-BHC [319-84-6] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
beta-BHC [319-85-7] ^	0.027	U	ug/L	1	0.027	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	07/19/11 00:46	MSZ	
delta-BHC [319-86-8] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
Dieldrin [60-57-1] ^	0.0020	U	ug/L	1	0.0020	0.050	0.075	EPA 8081B	07/19/11 00:46	MSZ	
Endosulfan I [959-98-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
Endosulfan II [33213-65-9] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
Endosulfan sulfate [1031-07-8] ^	0.025	U	ug/L	1	0.025	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
Endrin [72-20-8] ^	0.029	U	ug/L	1	0.029	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
Endrin aldehyde [7421-93-4] ^	0.031	U	ug/L	1	0.031	0.050	0.1	EPA 8081B	07/19/11 00:46	MSZ	
gamma-BHC [58-89-9] ^	0.022	U	ug/L	1	0.022	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
Heptachlor [76-44-8] ^	0.038	U	ug/L	1	0.038	0.050	0.05	EPA 8081B	07/19/11 00:46	MSZ	
Heptachlor epoxide [1024-57-3] ^	0.027	U	ug/L	1	0.027	0.050	0.075	EPA 8081B	07/19/11 00:46	MSZ	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	07/19/11 00:46	MSZ	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	07/19/11 00:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*44-134*	*1G16001*	*EPA 8081B*	*07/19/11 00:46*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*37-149*	*1G16001*	*EPA 8081B*	*07/19/11 00:46*	*MSZ*	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.19	U	ug/L	1	0.19	0.50	2	EPA 8082A	07/19/11 00:46	MSZ	
PCB-1221 [11104-28-2] ^	0.046	U	ug/L	1	0.046	0.50	NE	EPA 8082A	07/19/11 00:46	MSZ	
PCB-1232 [11141-16-5] ^	0.028	U	ug/L	1	0.028	0.50	NE	EPA 8082A	07/19/11 00:46	MSZ	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	07/19/11 00:46	MSZ	
PCB-1254 [11097-69-1] ^	0.015	U	ug/L	1	0.015	0.50	NE	EPA 8082A	07/19/11 00:46	MSZ	
PCB-1260 [11096-82-5] ^	0.13	U	ug/L	1	0.13	0.50	NE	EPA 8082A	07/19/11 00:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.82*	*1*	*1.00*	*82 %*	*45-151*	*1G16002*	*EPA 8082A*	*07/19/11 00:46*	*MSZ*	
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*104 %*	*42-159*	*1G16002*	*EPA 8082A*	*07/19/11 00:46*	*MSZ*	

www.encolabs.com

Description:	MW-23	**Lab Sample ID:**	C108359-10	**Received:**	07/14/11 15:00
Matrix:	Ground Water	**Sampled:**	07/13/11 11:30	**Work Order:**	C108359
Project:	Albemarle Lined MSWLF	**Sampled By:**	Jonathan Pfohl		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:14	NLH	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:08	VLO	
Arsenic [7440-38-2] ^	**15.6**		ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Barium [7440-39-3] ^	**47.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:44	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:44	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:44	JDH	
Chromium [7440-47-3] ^	**3.13**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Cobalt [7440-48-4] ^	**26.4**		ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Nickel [7440-02-0] ^	**18.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:44	JDH	
Selenium [7782-49-2] ^	**6.53**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:08	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:44	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:08	VLO	
Tin [7440-31-5] ^	**4.67**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 11:44	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:44	JDH	
Zinc [7440-66-6] ^	**5.92**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:44	JDH	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	3.9	U	ug/L	1	3.9	10	10	SM4500-CN/E	07/20/11 18:33	AJB	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM18 4500-S D	07/18/11 09:01	JOC	

www.encolabs.com

Description: MW-23 | **Lab Sample ID:** C108359-10 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/13/11 11:30 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.14	U	ug/L	1	0.14	0.50	2	EPA 8151A	07/20/11 01:09	RGG	
2,4,5-TP (Silvex) [93-72-1] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 01:09	RGG	
2,4-D [94-75-7] ^	0.15	U	ug/L	1	0.15	0.50	2	EPA 8151A	07/20/11 01:09	RGG	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	07/20/11 01:09	RGG	
Pentachlorophenol [87-86-5] ^	0.13	U	ug/L	1	0.13	0.50	25	EPA 8151A	07/20/11 01:09	RGG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.9*	*1*	*2.00*	*97 %*	*68-139*	*1G15004*	*EPA 8151A*	*07/20/11 01:09*	*RGG*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-26 | **Lab Sample ID:** C108359-11 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 18:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 18:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 18:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 18:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 18:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 18:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 18:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 18:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 18:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 18:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 18:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 18:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 18:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 18:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 18:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 18:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 18:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 18:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 18:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 18:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 18:34	jkg	

www.encolabs.com

Description: MW-26 | **Lab Sample ID:** C108359-11 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 18:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 18:34*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 18:34*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 18:34*	*jkg*	

www.encolabs.com

Description: MW-26 | **Lab Sample ID:** C108359-11 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 14:40 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.227**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:12	VLO	
Arsenic [7440-38-2] ^	**3.65**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:46	JDH	
Barium [7440-39-3] ^	**8.97**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:46	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:46	JDH	
Cadmium [7440-43-9] ^	**0.554**	J	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:46	JDH	
Chromium [7440-47-3] ^	**6.70**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:46	JDH	
Cobalt [7440-48-4] ^	**1.62**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:46	JDH	
Copper [7440-50-8] ^	**8.04**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:46	JDH	J-01
Lead [7439-92-1] ^	**2.89**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:46	JDH	
Nickel [7440-02-0] ^	**6.52**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:46	JDH	
Selenium [7782-49-2] ^	**2.39**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:46	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:12	VLO	
Vanadium [7440-62-2] ^	**7.77**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:46	JDH	
Zinc [7440-66-6] ^	**12.8**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:46	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-27 | **Lab Sample ID:** C108359-12 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 13:35 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 19:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 19:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 19:04	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 19:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 19:04	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 19:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 19:04	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 19:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 19:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 19:04	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 19:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 19:04	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 19:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 19:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 19:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 19:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 19:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 19:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 19:04	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 19:04	jkg	

www.encolabs.com

Description: MW-27 | **Lab Sample ID:** C108359-12 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 13:35 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 19:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 19:04*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 19:04*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 19:04*	*jkg*	

www.encolabs.com

Description: MW-27 | **Lab Sample ID:** C108359-12 | **Received:** 07/14/11 15:00

Matrix: Ground Water | **Sampled:** 07/12/11 13:35 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:16	VLO	
Arsenic [7440-38-2] ^	**4.73**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:48	JDH	
Barium [7440-39-3] ^	**33.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:48	JDH	
Cadmium [7440-43-9] ^	**4.88**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:48	JDH	
Chromium [7440-47-3] ^	**3.49**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:48	JDH	
Cobalt [7440-48-4] ^	**17.2**		ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:48	JDH	
Copper [7440-50-8] ^	**3.32**	JB	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:48	JDH	J-01
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:48	JDH	
Nickel [7440-02-0] ^	**14.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:48	JDH	
Selenium [7782-49-2] ^	**4.09**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:16	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:16	VLO	
Vanadium [7440-62-2] ^	**4.01**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:48	JDH	
Zinc [7440-66-6] ^	**6.16**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:48	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C108359-13 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 15:05 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 19:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 19:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 19:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 19:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 19:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 19:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 19:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 19:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 19:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 19:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 19:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 19:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 19:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 19:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 19:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 19:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 19:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 19:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 19:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 19:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 19:34	jkg	

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C108359-13 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 15:05 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 19:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 19:34*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 19:34*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 19:34*	*jkg*	

www.encolabs.com

Description: SW-2 | **Lab Sample ID:** C108359-13 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 15:05 | **Work Order:** C108359

Project: Albemarle Lined MSWLF | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:20	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Barium [7440-39-3] ^	**14.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:50	JDH	
Cadmium [7440-43-9] ^	**2.00**		ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:50	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Lead [7439-92-1] ^	**2.05**	J	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:50	JDH	
Selenium [7782-49-2] ^	**3.22**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:20	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:50	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:50	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: LAGOON
Matrix: Surface Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-14
Sampled: 07/14/11 08:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 20:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 20:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/21/11 20:04	jkg	
2-Butanone [78-93-3] ^	**97**	J	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 20:04	jkg	
2-Hexanone [591-78-6] ^	**3.1**	J	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 20:04	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	**2.8**	J	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 20:04	jkg	
Acetone [67-64-1] ^	**200**		ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 20:04	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/21/11 20:04	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/21/11 20:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 20:04	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 20:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 20:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 20:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 20:04	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/21/11 20:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 20:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/21/11 20:04	jkg	

www.encolabs.com

Description: LAGOON
Matrix: Surface Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-14
Sampled: 07/14/11 08:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 20:04	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/21/11 20:04	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/21/11 20:04	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/21/11 20:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/21/11 20:04	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/21/11 20:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Toluene [108-88-3] ^	**1.6**		ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 20:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 20:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 20:04	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 20:04	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 20:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*99 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 20:04*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 20:04*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 20:04*	*jkg*	

www.encolabs.com

Description: LAGOON
Matrix: Surface Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-14
Sampled: 07/14/11 08:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 15:17	NLH	

www.encolabs.com

Description: LAGOON
Matrix: Surface Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-14
Sampled: 07/14/11 08:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.18**	J	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:23	VLO	
Arsenic [7440-38-2] ^	**30.1**		ug/L	1	2.80	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Barium [7440-39-3] ^	**39.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/20/11 11:52	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/20/11 11:52	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/20/11 11:52	JDH	
Chromium [7440-47-3] ^	**9.86**	J	ug/L	1	1.00	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Cobalt [7440-48-4] ^	**5.62**	J	ug/L	1	1.10	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Nickel [7440-02-0] ^	**17.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	07/20/11 11:52	JDH	
Selenium [7782-49-2] ^	**7.35**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:23	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/20/11 11:52	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:23	VLO	
Tin [7440-31-5] ^	**7.11**	J	ug/L	1	2.10	10.0	100	EPA 6010C	07/20/11 11:52	JDH	
Vanadium [7440-62-2] ^	**7.80**	J	ug/L	1	1.40	10.0	25	EPA 6010C	07/20/11 11:52	JDH	
Zinc [7440-66-6] ^	**15.4**		ug/L	1	3.80	10.0	10	EPA 6010C	07/20/11 11:52	JDH	

www.encolabs.com

Description: LAGOON
Matrix: Surface Water
Project: Albemarle Lined MSWLF

Lab Sample ID: C108359-14
Sampled: 07/14/11 08:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108359

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**130000**		ug/L	1	2000	2000	NE	SM 5210B	07/15/11 15:33	JOC	
Chemical Oxygen Demand [ECL-0035] ^	**300000**		ug/L	1	10000	10000	NE	SM 5220D	07/19/11 16:13	JOC	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	07/19/11 10:15	AJB	
Nitrate/Nitrite as N [ECL-0010] ^	25	U	ug/L	1	25	100	NE	EPA 353.2	07/18/11 09:06	CCB	
Nitrite as N [14797-65-0] ^	3.0	U	ug/L	1	3.0	100	1000	EPA 353.2	07/14/11 13:52	AJB	
pH [ECL-0062] ^	**7.9**		pH Units	1	1.0	1.0	NE	SM4500-H/B	07/19/11 12:25	KLJ	Q
Phosphorus [7723-14-0] ^	**460**		ug/L	1	21	100	NE	EPA 365.4	07/26/11 08:38	CCB	
Sulfate as SO4 [14808-79-8] ^	**17000**	JD	ug/L	2	40	10000	250000	EPA 300.0	07/20/11 09:09	CCB	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G20005 - EPA 5030B_MS

Blank (1G20005-BLK1) Prepared: 07/20/2011 07:54 Analyzed: 07/20/2011 09:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G20005 - EPA 5030B_MS

Blank (1G20005-BLK1) Continued Prepared: 07/20/2011 07:54 Analyzed: 07/20/2011 09:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*69-110*			

LCS (1G20005-BS1) Prepared: 07/20/2011 07:54 Analyzed: 07/20/2011 23:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		117	75-133			
Benzene	22		1.0	ug/L	20.0		111	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	23		1.0	ug/L	20.0		113	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*69-110*			

Matrix Spike (1G20005-MS1) Prepared: 07/20/2011 07:54 Analyzed: 07/20/2011 23:35

Source: C108583-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	115	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	108	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	98	83-117			
Toluene	22		1.0	ug/L	20.0	0.85 U	108	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	101	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*99*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

Matrix Spike Dup (1G20005-MSD1) Prepared: 07/20/2011 07:54 Analyzed: 07/21/2011 00:05

Source: C108583-10

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G20005 - EPA 5030B_MS

Matrix Spike Dup (1G20005-MSD1) Continued Prepared: 07/20/2011 07:54 Analyzed: 07/21/2011 00:05

Source: C108583-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	110	75-133	4	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	105	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	98	83-117	0.4	16	
Toluene	21		1.0	ug/L	20.0	0.85 U	107	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.72 U	95	75-115	5	18	
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*69-110*			

Batch 1G21007 - EPA 5030B_MS

Blank (1G21007-BLK1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21007 - EPA 5030B_MS

Blank (1G21007-BLK1) Continued Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (1G21007-BS1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		121	75-133			
Benzene	23		1.0	ug/L	20.0		115	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	23		1.0	ug/L	20.0		114	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21007 - EPA 5030B_MS

Matrix Spike (1G21007-MS1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 12:03

Source: C108980-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	117	75-133			
Benzene	23		1.0	ug/L	20.0	0.68 U	114	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	102	83-117			
Toluene	22		1.0	ug/L	20.0	0.85 U	110	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

Matrix Spike Dup (1G21007-MSD1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 12:33

Source: C108980-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.60 U	107	75-133	9	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	106	81-134	8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	100	83-117	3	16	
Toluene	22		1.0	ug/L	20.0	0.85 U	109	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.72 U	94	75-115	4	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*69-110*			

Batch 1G22004 - EPA 5030B_MS

Blank (1G22004-BLK1) Prepared: 07/22/2011 09:28 Analyzed: 07/22/2011 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G22004 - EPA 5030B_MS

Blank (1G22004-BLK1) Continued Prepared: 07/22/2011 09:28 Analyzed: 07/22/2011 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*99*	*51-122*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*69-110*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G22004 - EPA 5030B_MS

LCS (1G22004-BS1) Prepared: 07/22/2011 09:28 Analyzed: 07/22/2011 13:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0		124	75-133			
Benzene	23		1.0	ug/L	20.0		116	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	24		1.0	ug/L	20.0		118	71-118			
Trichloroethene	20		1.0	ug/L	20.0		98	75-115			

Matrix Spike (1G22004-MS1) Prepared: 07/22/2011 09:28 Analyzed: 07/22/2011 14:11

Source: C107171-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	27		1.0	ug/L	20.0	0.60 U	137	75-133			QM-07
Benzene	24		1.0	ug/L	20.0	0.68 U	122	81-134			
Chlorobenzene	22		1.0	ug/L	20.0	0.74 U	110	83-117			
Toluene	25		1.0	ug/L	20.0	0.85 U	124	71-118			QM-07
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	105	75-115			

Matrix Spike Dup (1G22004-MSD1) Prepared: 07/22/2011 09:28 Analyzed: 07/22/2011 14:44

Source: C107171-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.60 U	122	75-133	12	20	
Benzene	22		1.0	ug/L	20.0	0.68 U	112	81-134	8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	101	83-117	9	16	
Toluene	23		1.0	ug/L	20.0	0.85 U	113	71-118	9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	99	75-115	6	18	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1G14001 - EPA 3510C_MS

Blank (1G14001-BLK1) Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 17:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							QV-01
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1G14001 - EPA 3510C_MS

Blank (1G14001-BLK1) Continued Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 17:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							QV-01
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							QV-01
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							QV-02
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1G14001 - EPA 3510C_MS

Blank (1G14001-BLK1) Continued Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 17:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-02
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*78*			*ug/L*	*100*		*78*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: Phenol-d5	*58*			*ug/L*	*100*		*58*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*98*	*10-188*			

LCS (1G14001-BS1) Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 17:47

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1G14001 - EPA 3510C_MS

LCS (1G14001-BS1) Continued Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 17:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	41		10	ug/L	50.0		82	40-109			
4-Chloro-3-methylphenol	43		10	ug/L	50.0		87	58-121			
4-Nitrophenol	33		10	ug/L	50.0		67	33-105			
Acenaphthene	40		10	ug/L	50.0		79	39-125			
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0		91	48-126			
Phenol	30		10	ug/L	50.0		61	19-78			
Pyrene	46		10	ug/L	50.0		91	44-137			
Surrogate: 2,4,6-Tribromophenol	*78*			*ug/L*	*100*		*78*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: 2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*10-110*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: Phenol-d5	*57*			*ug/L*	*100*		*57*	*10-88*			
Surrogate: Terphenyl-d14	*45*			*ug/L*	*50.0*		*91*	*10-188*			

Matrix Spike (1G14001-MS1) Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 18:16

Source: C107954-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	43		10	ug/L	50.0	1.2 U	87	40-109			
4-Chloro-3-methylphenol	47		10	ug/L	50.0	1.5 U	94	58-121			
4-Nitrophenol	34		10	ug/L	50.0	2.0 U	68	33-105			
Acenaphthene	43		10	ug/L	50.0	1.4 U	85	39-125			
N-Nitroso-di-n-propylamine	48		10	ug/L	50.0	1.5 U	96	48-126			
Phenol	31		10	ug/L	50.0	1.4 U	62	19-78			
Pyrene	46		10	ug/L	50.0	2.1 U	92	44-137			
Surrogate: 2,4,6-Tribromophenol	*86*			*ug/L*	*100*		*86*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*87*	*10-149*			
Surrogate: 2-Fluorophenol	*67*			*ug/L*	*100*		*67*	*10-110*			
Surrogate: Nitrobenzene-d5	*45*			*ug/L*	*50.0*		*91*	*10-149*			
Surrogate: Phenol-d5	*58*			*ug/L*	*100*		*58*	*10-88*			
Surrogate: Terphenyl-d14	*46*			*ug/L*	*50.0*		*92*	*10-188*			

Matrix Spike Dup (1G14001-MSD1) Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 18:46

Source: C107954-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	43		10	ug/L	50.0	1.2 U	86	40-109	0.9	22	
4-Chloro-3-methylphenol	46		10	ug/L	50.0	1.5 U	93	58-121	1	22	
4-Nitrophenol	34		10	ug/L	50.0	2.0 U	68	33-105	0.4	27	
Acenaphthene	41		10	ug/L	50.0	1.4 U	82	39-125	4	25	
N-Nitroso-di-n-propylamine	47		10	ug/L	50.0	1.5 U	95	48-126	1	23	
Phenol	32		10	ug/L	50.0	1.4 U	63	19-78	3	18	
Pyrene	42		10	ug/L	50.0	2.1 U	84	44-137	9	24	
Surrogate: 2,4,6-Tribromophenol	*80*			*ug/L*	*100*		*80*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: 2-Fluorophenol	*66*			*ug/L*	*100*		*66*	*10-110*			
Surrogate: Nitrobenzene-d5	*46*			*ug/L*	*50.0*		*92*	*10-149*			

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 1G14001 - EPA 3510C_MS

Matrix Spike Dup (1G14001-MSD1) Continued Prepared: 07/14/2011 04:08 Analyzed: 07/21/2011 18:46

Source: C107954-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Phenol-d5	*60*			*ug/L*	*100*		*60*	*10-88*			
Surrogate: Terphenyl-d14	*42*			*ug/L*	*50.0*		*84*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 1G16001 - EPA 3510C

Blank (1G16001-BLK1) Prepared: 07/16/2011 05:32 Analyzed: 07/18/2011 20:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.038	U	0.050	ug/L							
alpha-BHC	0.027	U	0.050	ug/L							
beta-BHC	0.027	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
delta-BHC	0.022	U	0.050	ug/L							
Dieldrin	0.0020	U	0.050	ug/L							
Endosulfan I	0.041	U	0.050	ug/L							
Endosulfan II	0.029	U	0.050	ug/L							
Endosulfan sulfate	0.025	U	0.050	ug/L							
Endrin	0.029	U	0.050	ug/L							
Endrin aldehyde	0.031	U	0.050	ug/L							
gamma-BHC	0.022	U	0.050	ug/L							
Heptachlor	0.038	U	0.050	ug/L							
Heptachlor epoxide	0.027	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.91*			*ug/L*	*1.00*		*91*	*37-149*			

LCS (1G16001-BS1) Prepared: 07/16/2011 05:32 Analyzed: 07/18/2011 20:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.97		0.050	ug/L	1.00		97	37-139			
Dieldrin	0.96		0.050	ug/L	1.00		96	46-132			
Endrin	0.82		0.050	ug/L	1.00		82	43-133			
Surrogate: 2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*111*	*37-149*			

Matrix Spike (1G16001-MS1) Prepared: 07/16/2011 05:32 Analyzed: 07/18/2011 20:48

Source: C108583-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	109	37-139			
Dieldrin	1.0		0.050	ug/L	1.00	0.0020 U	105	46-132			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 1G16001 - EPA 3510C

Matrix Spike (1G16001-MS1) Continued Prepared: 07/16/2011 05:32 Analyzed: 07/18/2011 20:48

Source: C108583-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Endrin	0.92		0.050	ug/L	1.00	0.029 U	92	43-133			
Surrogate: 2,4,5,6-TCMX	*0.92*			*ug/L*	*1.00*		*92*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.4*			*ug/L*	*1.00*		*138*	*37-149*			

Matrix Spike Dup (1G16001-MSD1) Prepared: 07/16/2011 05:32 Analyzed: 07/18/2011 21:01

Source: C108583-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	1.1		0.050	ug/L	1.00	0.049 U	114	37-139	4	26	
Dieldrin	1.1		0.050	ug/L	1.00	0.0020 U	108	46-132	3	27	
Endrin	0.93		0.050	ug/L	1.00	0.029 U	93	43-133	1	26	
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*44-134*			
Surrogate: Decachlorobiphenyl	*1.4*			*ug/L*	*1.00*		*136*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 1G16002 - EPA 3510C

Blank (1G16002-BLK1) Prepared: 07/16/2011 06:29 Analyzed: 07/18/2011 20:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.19	U	0.50	ug/L							
PCB-1221	0.046	U	0.50	ug/L							
PCB-1232	0.028	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.015	U	0.50	ug/L							
PCB-1260	0.13	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.91*			*ug/L*	*1.00*		*91*	*42-159*			

LCS (1G16002-BS1) Prepared: 07/16/2011 06:29 Analyzed: 07/18/2011 21:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	7.4		0.50	ug/L	10.0		74	66-149			
PCB-1260	8.9		0.50	ug/L	10.0		89	64-150			
Surrogate: 2,4,5,6-TCMX	*0.74*			*ug/L*	*1.00*		*74*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.0*			*ug/L*	*1.00*		*101*	*42-159*			

Matrix Spike (1G16002-MS1) Prepared: 07/16/2011 06:29 Analyzed: 07/18/2011 21:28

Source: C108583-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	7.5		0.50	ug/L	10.0	0.19 U	75	66-149			
PCB-1260	9.2		0.50	ug/L	10.0	0.13 U	92	64-150			
Surrogate: 2,4,5,6-TCMX	*0.75*			*ug/L*	*1.00*		*75*	*45-151*			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 1G16002 - EPA 3510C

Matrix Spike (1G16002-MS1) Continued Prepared: 07/16/2011 06:29 Analyzed: 07/18/2011 21:28

Source: C108583-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*111*	*42-159*			

Matrix Spike Dup (1G16002-MSD1) Prepared: 07/16/2011 06:29 Analyzed: 07/18/2011 21:41

Source: C108583-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	7.3		0.50	ug/L	10.0	0.19 U	73	66-149	3	21	
PCB-1260	9.1		0.50	ug/L	10.0	0.13 U	91	64-150	0.2	18	
Surrogate: 2,4,5,6-TCMX	*0.73*			*ug/L*	*1.00*		*73*	*45-151*			
Surrogate: Decachlorobiphenyl	*1.1*			*ug/L*	*1.00*		*111*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15004 - EPA 245.1

Blank (1G15004-BLK1) Prepared: 07/15/2011 09:25 Analyzed: 07/15/2011 14:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1G15004-BS1) Prepared: 07/15/2011 09:25 Analyzed: 07/15/2011 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.97		0.200	ug/L	5.00		99	85-115			

Matrix Spike (1G15004-MS1) Prepared: 07/15/2011 09:25 Analyzed: 07/15/2011 14:25

Source: C107170-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.40		0.200	ug/L	5.00	1.77	93	85-115			

Matrix Spike Dup (1G15004-MSD1) Prepared: 07/15/2011 09:25 Analyzed: 07/15/2011 14:28

Source: C107170-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.15		0.200	ug/L	5.00	1.77	88	85-115	4	15	

Post Spike (1G15004-PS1) Prepared: 07/15/2011 09:25 Analyzed: 07/15/2011 14:31

Source: C107170-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.25		0.200	ug/L	5.00	1.77	70	75-125			QM-08

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15018 - EPA 3005A

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Blank (1G15018-BLK1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1G15018-BS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.8		2.00	ug/L	25.0		99	80-120			
Selenium	27.6		1.00	ug/L	25.0		111	80-120			
Thallium	25.3		1.00	ug/L	25.0		101	80-120			

Matrix Spike (1G15018-MS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:50

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.3		2.00	ug/L	25.0	0.220 U	89	75-125			
Selenium	30.7		1.00	ug/L	25.0	5.31	101	75-125			
Thallium	24.9		1.00	ug/L	25.0	0.110 U	100	75-125			

Matrix Spike Dup (1G15018-MSD1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:01

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.5		2.00	ug/L	25.0	0.220 U	90	75-125	0.8	20	
Selenium	29.7		1.00	ug/L	25.0	5.31	98	75-125	3	20	
Thallium	25.5		1.00	ug/L	25.0	0.110 U	102	75-125	2	20	

Post Spike (1G15018-PS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:05

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.1		2.00	ug/L	25.0	0.0820	92	80-120			
Selenium	28.7		1.00	ug/L	25.0	5.31	94	80-120			
Thallium	22.1		1.00	ug/L	25.0	-0.395	90	80-120			

Batch 1G18013 - EPA 3005A

Blank (1G18013-BLK1) Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	**1.78**	**J**	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G18013 - EPA 3005A

Blank (1G18013-BLK1) Continued Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1G18013-BS1) Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	537		10.0	ug/L	500		107	80-120			
Barium	549		10.0	ug/L	500		110	80-120			
Beryllium	283		1.00	ug/L	250		113	80-120			
Cadmium	278		1.00	ug/L	250		111	80-120			
Chromium	555		10.0	ug/L	500		111	80-120			
Cobalt	540		10.0	ug/L	500		108	80-120			
Copper	278	B	10.0	ug/L	250		111	80-120			
Lead	541		10.0	ug/L	500		108	80-120			
Nickel	542		10.0	ug/L	500		108	80-120			
Silver	280		10.0	ug/L	250		112	80-120			
Tin	545		10.0	ug/L	500		109	80-120			
Vanadium	281		10.0	ug/L	250		112	80-120			
Zinc	542		10.0	ug/L	500		108	80-120			

Matrix Spike (1G18013-MS1) Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:54

Source: C108359-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	581		10.0	ug/L	500	6.77	115	75-125			
Barium	622		10.0	ug/L	500	48.5	115	75-125			
Beryllium	302		1.00	ug/L	250	0.100 U	121	75-125			
Cadmium	291		1.00	ug/L	250	0.360 U	116	75-125			
Chromium	579		10.0	ug/L	500	3.29	115	75-125			
Cobalt	644		10.0	ug/L	500	54.7	118	75-125			
Copper	300	B	10.0	ug/L	250	15.1	114	75-125			
Lead	571		10.0	ug/L	500	2.54	114	75-125			
Nickel	580		10.0	ug/L	500	11.5	114	75-125			
Silver	305		10.0	ug/L	250	1.90 U	122	75-125			
Tin	607		10.0	ug/L	500	3.88	121	75-125			
Vanadium	304		10.0	ug/L	250	9.05	118	75-125			
Zinc	574		10.0	ug/L	500	9.90	113	75-125			

Matrix Spike Dup (1G18013-MSD1) Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:55

Source: C108359-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	602		10.0	ug/L	500	6.77	119	75-125	3	20	
Barium	644		10.0	ug/L	500	48.5	119	75-125	3	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G18013 - EPA 3005A

Matrix Spike Dup (1G18013-MSD1) Continued Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:55

Source: C108359-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	313		1.00	ug/L	250	0.100 U	125	75-125	4	20	
Cadmium	301		1.00	ug/L	250	0.360 U	120	75-125	3	20	
Chromium	600		10.0	ug/L	500	3.29	119	75-125	4	20	
Cobalt	666		10.0	ug/L	500	54.7	122	75-125	3	20	
Copper	312	B	10.0	ug/L	250	15.1	119	75-125	4	20	
Lead	590		10.0	ug/L	500	2.54	118	75-125	3	20	
Nickel	601		10.0	ug/L	500	11.5	118	75-125	3	20	
Silver	300		10.0	ug/L	250	1.90 U	120	75-125	2	20	
Tin	597		10.0	ug/L	500	3.88	119	75-125	2	20	
Vanadium	315		10.0	ug/L	250	9.05	123	75-125	4	20	
Zinc	594		10.0	ug/L	500	9.90	117	75-125	3	20	

Post Spike (1G18013-PS1) Prepared: 07/18/2011 10:24 Analyzed: 07/20/2011 10:57

Source: C108359-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.03		0.0100	mg/L	1.00	0.00677	102	80-120			
Barium	1.08		0.0100	mg/L	1.00	0.0485	103	80-120			
Beryllium	0.532		0.00100	mg/L	0.500	-4.94E-5	106	80-120			
Cadmium	0.524		0.00100	mg/L	0.500	0.000181	105	80-120			
Chromium	1.05		0.0100	mg/L	1.00	0.00329	105	80-120			
Cobalt	1.07		0.0100	mg/L	1.00	0.0547	102	80-120			
Copper	0.540	B	0.0100	mg/L	0.500	0.0151	105	80-120			
Lead	1.00		0.0100	mg/L	1.00	0.00254	100	80-120			
Nickel	1.03		0.0100	mg/L	1.00	0.0115	102	80-120			
Silver	0.528		0.0100	mg/L	0.500	0.000784	105	80-120			
Tin	1.02		0.0100	mg/L	1.00	0.00388	101	80-120			
Vanadium	0.547		0.0100	mg/L	0.500	0.00905	107	80-120			
Zinc	1.02		0.0100	mg/L	1.00	0.00990	101	80-120			

Classical Chemistry Parameters - Quality Control

Batch 1G14030 - NO PREP

Blank (1G14030-BLK1) Prepared & Analyzed: 07/14/2011 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	3.0	U	100	ug/L							

LCS (1G14030-BS1) Prepared & Analyzed: 07/14/2011 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		103	90-110			

Matrix Spike (1G14030-MS1) Prepared & Analyzed: 07/14/2011 13:52

Source: C107168-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1G14030 - NO PREP

Matrix Spike (1G14030-MS1) Continued Prepared & Analyzed: 07/14/2011 13:52

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.94		0.10	mg/L	1.00	0.054	89	90-110			QM-05

Matrix Spike Dup (1G14030-MSD1) Prepared & Analyzed: 07/14/2011 13:52

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00	0.054	91	90-110	2	10	

Batch 1G15011 - NO PREP

Blank (1G15011-BLK1) Prepared & Analyzed: 07/15/2011 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							

LCS (1G15011-BS1) Prepared & Analyzed: 07/15/2011 15:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		97	85-115			

Duplicate (1G15011-DUP1) Prepared & Analyzed: 07/15/2011 15:33

Source: C108246-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L		2000 U				25	

Batch 1G17001 - NO PREP

Blank (1G17001-BLK1) Prepared: 07/17/2011 14:47 Analyzed: 07/18/2011 08:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (1G17001-BS1) Prepared: 07/17/2011 14:47 Analyzed: 07/18/2011 08:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		104	90-110			

Matrix Spike (1G17001-MS1) Prepared: 07/17/2011 14:47 Analyzed: 07/18/2011 08:40

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	0.513	0.89	99	90-110			

Matrix Spike Dup (1G17001-MSD1) Prepared: 07/17/2011 14:47 Analyzed: 07/18/2011 08:42

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1G17001 - NO PREP

Matrix Spike Dup (1G17001-MSD1) Continued Prepared: 07/17/2011 14:47 Analyzed: 07/18/2011 08:42

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	0.513	0.89	96	90-110	1	10	

Batch 1G18002 - NO PREP

Blank (1G18002-BLK1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (1G18002-BS1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.40		0.10	mg/L	0.401		99	80-120			

Matrix Spike (1G18002-MS1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Source: C108023-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.14		0.10	mg/L	0.401	0.010 U	36	80-120			QM-05

Matrix Spike Dup (1G18002-MSD1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Source: C108023-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.15		0.10	mg/L	0.401	0.010 U	38	80-120	6	25	QM-05

Batch 1G19003 - Same

Blank (1G19003-BLK1) Prepared: 07/19/2011 10:58 Analyzed: 07/20/2011 18:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	3.9	U	10	ug/L							

LCS (1G19003-BS1) Prepared: 07/19/2011 14:59 Analyzed: 07/20/2011 18:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		98	90-110			

Matrix Spike (1G19003-MS1) Prepared: 07/19/2011 10:58 Analyzed: 07/20/2011 18:08

Source: C102879-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0013	95	90-110			

Matrix Spike Dup (1G19003-MSD1) Prepared: 07/19/2011 10:58 Analyzed: 07/20/2011 18:10

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1G19003 - Same

Matrix Spike Dup (1G19003-MSD1) Continued Prepared: 07/19/2011 10:58 Analyzed: 07/20/2011 18:10

Source: C102879-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0013	95	90-110	0.4	10	

Batch 1G19010 - Same

Blank (1G19010-BLK1) Prepared: 07/19/2011 11:44 Analyzed: 07/19/2011 16:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	10000	U	10000	ug/L							

LCS (1G19010-BS1) Prepared: 07/19/2011 11:44 Analyzed: 07/19/2011 16:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500		100	90-110			

Matrix Spike (1G19010-MS1) Prepared: 07/19/2011 11:44 Analyzed: 07/19/2011 16:13

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	850		10	mg/L	500	370	96	90-110			

Matrix Spike Dup (1G19010-MSD1) Prepared: 07/19/2011 11:44 Analyzed: 07/19/2011 16:13

Source: C107168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	840		10	mg/L	500	370	94	90-110	1	10	

Batch 1G19014 - NO PREP

Blank (1G19014-BLK1) Prepared: 07/19/2011 09:58 Analyzed: 07/20/2011 02:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	20	U	5000	ug/L							

LCS (1G19014-BS1) Prepared: 07/19/2011 09:58 Analyzed: 07/20/2011 02:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	50		5.0	mg/L	50.0		101	90-110			

Matrix Spike (1G19014-MS1) Prepared: 07/19/2011 09:58 Analyzed: 07/20/2011 03:16

Source: C107840-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	21		5.0	mg/L	20.0	3.0	88	90-110			QM-05

Matrix Spike Dup (1G19014-MSD1) Prepared: 07/19/2011 09:58 Analyzed: 07/20/2011 03:34

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1G19014 - NO PREP

Matrix Spike Dup (1G19014-MSD1) Continued Prepared: 07/19/2011 09:58 Analyzed: 07/20/2011 03:34

Source: C107840-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	21		5.0	mg/L	20.0	3.0	90	90-110	2	10	

Batch 1G19020 - NO PREP

LCS (1G19020-BS1) Prepared & Analyzed: 07/19/2011 12:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.00		101	99-101			

Duplicate (1G19020-DUP1) Prepared & Analyzed: 07/19/2011 12:25

Source: C108359-14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.9		1.0	pH Units		7.9			0.1	25	

Batch 1G21009 - Same

Blank (1G21009-BLK1) Prepared: 07/22/2011 11:17 Analyzed: 07/26/2011 08:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	21	U	100	ug/L							

LCS (1G21009-BS1) Prepared: 07/22/2011 11:17 Analyzed: 07/26/2011 08:09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60		96	80-120			

Matrix Spike (1G21009-MS1) Prepared: 07/22/2011 11:17 Analyzed: 07/26/2011 08:11

Source: C107710-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.75		0.10	mg/L	0.640	0.093	103	80-120			

Matrix Spike Dup (1G21009-MSD1) Prepared: 07/22/2011 11:17 Analyzed: 07/26/2011 08:13

Source: C107710-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.73		0.10	mg/L	0.640	0.093	99	80-120	3	25	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 1G15004 - EPA 3510C

Blank (1G15004-BLK1) Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 15:40

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 1G15004 - EPA 3510C

Blank (1G15004-BLK1) Continued Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 15:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.14	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.15	U	0.50	ug/L							
2,4-D	0.15	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.13	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*97*	*68-139*			

Blank (1G15004-BLK2) Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.70	U	2.5	ug/L							
2,4,5-TP (Silvex)	0.75	U	2.5	ug/L							
2,4-D	0.75	U	2.5	ug/L							
Dinoseb	1.6	U	2.5	ug/L							
Pentachlorophenol	0.65	U	2.5	ug/L							
Surrogate: 2,4-DCAA	*9.7*			*ug/L*	*10.0*		*97*	*68-139*			

LCS (1G15004-BS1) Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 16:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		100	68-154			
2,4-D	2.0		0.50	ug/L	2.00		98	62-144			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*104*	*68-139*			

Matrix Spike (1G15004-MS1) Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 17:19

Source: A103791-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.1		0.50	ug/L	2.00	0.15 U	104	68-154			
2,4-D	2.0		0.50	ug/L	2.00	0.15 U	100	62-144			
Surrogate: 2,4-DCAA	*2.1*			*ug/L*	*2.00*		*107*	*68-139*			

Matrix Spike Dup (1G15004-MSD1) Prepared: 07/15/2011 14:00 Analyzed: 07/19/2011 17:44

Source: A103791-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.15 U	96	68-154	8	15	
2,4-D	1.9		0.50	ug/L	2.00	0.15 U	96	62-144	4	33	
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*101*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QS-06	Surrogate recovery exceeded acceptance criteria due to coelution. Matrix effect confirmed.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 1 of 3

Client Name: Municipal Engineering Services (MU001)	Project Number: G10055.0
Address: P.O. Box 97	Project Name/Desc: Albemarle Lined MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone: Albemarle NC / Eastern

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C108359

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Sulfide SM4500-S D	~~BOD SM5210B~~	~~COD SM5220D~~	Cyanide Total SM4500-CN E	Hg	~~Nitrate Calc 353.2~~	Sample Comments
	MW-13	7/13/11	12:00	Grab	GW	9	X		X	X		X		X	X			
	MW-14	7/12/11	3:40		GW	4		X			X							
	MW-15	7/12/11	4:45		GW	4		X			X							
	MW-16S	7/13/11	10:15		GW	9	X		X	X		X		X	X			
	MW-16D	7/13/11	10:40		GW	9	X		X	X		X		X	X			
	MW-17	7/12/11	12:00		GW	4		X			X							
	MW-18	7/12/11	11:00		GW	4		X			X							
	MW-19	7/13/11	9:10		GW	9	X		X	X		X		X	X			
	MW-22	7/12/11	2:00		GW	4		X			X							
	MW-23	7/13/11	11:30		GW	9	X		X	X		X		X	X			
	MW-26	7/12/11	2:40		GW	4		X			X							
	MW-27	7/12/11	1:35	✓	GW	4		X			X							

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		/MESCO 15:00	7/14/11	Briana Gregory	7/14/11 15:00
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-807 1.7°C C-734 2.0°C C-133 1.6°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) **Preservation:** I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 3 of 3

Client Name: Municipal Engineering Services (MU001)	Project Number: G10055.0
Address: P.O. Box 97	Project Name/Desc: Albemarle Lined MSWLF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info
Tel: (919) 772-5393 / Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature	Site Location / Time Zone

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C108359

Requested Analyses

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	~~Sulfide SM4500-S D~~ 8081B Appendix 2, 8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 1	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	BOD SM5210B	COD SM5220D	Sulfate 300 ~~Cyanide Total SM4500-CN-E~~	NOX 353.2, P	Hg	Nitrate Calc 353.2, pH SM4500-H B	Sample Comments
	SW-2	7/12/11	3:05	Grab	SW	4		X			X							
	LAGOON	7/14/11	8:10AM	Grab	WW	7			X	X		X	X	X	X	X	X	

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		MESCO 7/14/11	15:00	Briana Gregory	7/14/11 15:00
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-807 1.7°C C-734 2.0°C C-133 1.6°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, July 28, 2011

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G10055.0, Project Name/Desc: Albemarle MSWLF SWs
ENCO Workorder: C108361

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 14, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 19.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1	Lab ID: C108361-01	Sampled: 07/12/11 17:00	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/08/12	07/15/11 09:28	7/18/2011 14:05
EPA 6020A	01/08/12	07/15/11 12:03	7/19/2011 16:35
EPA 8260B	07/26/11	07/21/11 12:21	7/22/2011 02:34

Client ID: SW-6	Lab ID: C108361-02	Sampled: 07/12/11 10:10	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/08/12	07/15/11 09:28	7/18/2011 14:13
EPA 6020A	01/08/12	07/15/11 12:03	7/19/2011 16:38
EPA 8260B	07/26/11	07/21/11 12:21	7/22/2011 03:04

Client ID: SW-7	Lab ID: C108361-03	Sampled: 07/12/11 10:30	Received: 07/14/11 15:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/08/12	07/15/11 09:28	7/18/2011 14:15
EPA 6020A	01/08/12	07/15/11 12:03	7/19/2011 16:55
EPA 8260B	07/26/11	07/21/11 12:21	7/22/2011 03:34

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: SW-1 **Lab ID: C108361-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	4.70	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	14.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon disulfide	1.7	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Selenium - Total	1.05	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Zinc - Total	7.05	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: SW-6 **Lab ID: C108361-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.08	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	15.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Carbon disulfide	1.9	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Selenium - Total	1.13	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Zinc - Total	4.62	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: SW-7 **Lab ID: C108361-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.40	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	15.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Selenium - Total	1.41	J	1	0.830	1.00	10	ug/L	EPA 6020A	

www.encolabs.com

ANALYTICAL RESULTS

Description: SW-1 | **Lab Sample ID:** C108361-01 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 17:00 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 02:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 02:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 02:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 02:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 02:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 02:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 02:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 02:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 02:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 02:34	jkg	
Carbon disulfide [75-15-0] ^	**1.7**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 02:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 02:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 02:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 02:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 02:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 02:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 02:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 02:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 02:34	jkg	

www.encolabs.com

Description: SW-1 | **Lab Sample ID:** C108361-01 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 17:00 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 02:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 02:34	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 02:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1G21033*	*EPA 8260B*	*07/22/11 02:34*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*1G21033*	*EPA 8260B*	*07/22/11 02:34*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*1G21033*	*EPA 8260B*	*07/22/11 02:34*	*jkg*	

www.encolabs.com

Description: SW-1 | **Lab Sample ID:** C108361-01 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 17:00 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:35	VLO	
Arsenic [7440-38-2] ^	**4.70**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Barium [7440-39-3] ^	**14.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/18/11 14:05	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/18/11 14:05	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/18/11 14:05	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/18/11 14:05	JDH	
Selenium [7782-49-2] ^	**1.05**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:35	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:05	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:35	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/18/11 14:05	JDH	
Zinc [7440-66-6] ^	**7.05**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/18/11 14:05	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-6 | **Lab Sample ID:** C108361-02 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 10:10 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 03:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 03:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 03:04	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 03:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 03:04	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 03:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 03:04	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 03:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 03:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 03:04	jkg	
Carbon disulfide [75-15-0] ^	**1.9**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 03:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 03:04	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 03:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 03:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 03:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 03:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 03:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 03:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 03:04	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 03:04	jkg	

www.encolabs.com

Description: SW-6
Matrix: Surface Water
Project: Albemarle MSWLF SWs

Lab Sample ID: C108361-02
Sampled: 07/12/11 10:10
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108361

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 03:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*1G21033*	*EPA 8260B*	*07/22/11 03:04*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*1G21033*	*EPA 8260B*	*07/22/11 03:04*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21033*	*EPA 8260B*	*07/22/11 03:04*	*jkg*	

www.encolabs.com

Description: SW-6 | **Lab Sample ID:** C108361-02 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 10:10 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:38	VLO	
Arsenic [7440-38-2] ^	**3.08**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Barium [7440-39-3] ^	**15.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/18/11 14:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/18/11 14:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/18/11 14:13	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/18/11 14:13	JDH	
Selenium [7782-49-2] ^	**1.13**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:38	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	07/18/11 14:13	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/18/11 14:13	JDH	
Zinc [7440-66-6] ^	**4.62**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/18/11 14:13	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-7 | **Lab Sample ID:** C108361-03 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 10:30 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 03:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 03:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 03:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 03:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 03:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 03:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 03:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 03:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 03:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 03:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 03:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 03:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 03:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 03:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 03:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 03:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 03:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 03:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 03:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 03:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 03:34	jkg	

www.encolabs.com

Description: SW-7 | **Lab Sample ID:** C108361-03 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 10:30 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 03:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*101 %*	*51-122*	*1G21033*	*EPA 8260B*	*07/22/11 03:34*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*1G21033*	*EPA 8260B*	*07/22/11 03:34*	*jkg*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*1G21033*	*EPA 8260B*	*07/22/11 03:34*	*jkg*	

www.encolabs.com

Description: SW-7 | **Lab Sample ID:** C108361-03 | **Received:** 07/14/11 15:00

Matrix: Surface Water | **Sampled:** 07/12/11 10:30 | **Work Order:** C108361

Project: Albemarle MSWLF SWs | **Sampled By:** Jonathan Pfohl

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:55	VLO	
Arsenic [7440-38-2] ^	**3.40**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Barium [7440-39-3] ^	**15.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	07/18/11 14:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/18/11 14:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/18/11 14:15	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/18/11 14:15	JDH	
Selenium [7782-49-2] ^	**1.41**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:55	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/18/11 14:15	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	07/18/11 14:15	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21033 - EPA 5030B_MS

Blank (1G21033-BLK1) Prepared: 07/21/2011 12:21 Analyzed: 07/21/2011 23:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21033 - EPA 5030B_MS

Blank (1G21033-BLK1) Continued Prepared: 07/21/2011 12:21 Analyzed: 07/21/2011 23:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (1G21033-BS1) Prepared: 07/21/2011 12:21 Analyzed: 07/21/2011 23:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	75-133			
Benzene	22		1.0	ug/L	20.0		112	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Toluene	23		1.0	ug/L	20.0		113	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			

Matrix Spike (1G21033-MS1) Prepared: 07/21/2011 12:21 Analyzed: 07/22/2011 00:04

Source: C109100-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.60 U	120	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	112	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	100	83-117			
Toluene	22		1.0	ug/L	20.0	0.85 U	110	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	98	75-115			

Matrix Spike Dup (1G21033-MSD1) Prepared: 07/21/2011 12:21 Analyzed: 07/22/2011 00:34

Source: C109100-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.60 U	112	75-133	7	20	
Benzene	22		1.0	ug/L	20.0	0.68 U	109	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	99	83-117	1	16	
Toluene	22		1.0	ug/L	20.0	0.85 U	110	71-118	0.5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.72 U	95	75-115	3	18	

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Blank (1G15007-BLK1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Blank (1G15007-BLK1) Continued Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	1.90	U	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1G15007-BS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	506		10.0	ug/L	500		101	80-120			
Barium	515		10.0	ug/L	500		103	80-120			
Beryllium	259		1.00	ug/L	250		104	80-120			
Cadmium	258		1.00	ug/L	250		103	80-120			
Chromium	510		10.0	ug/L	500		102	80-120			
Cobalt	529		10.0	ug/L	500		106	80-120			
Copper	255		10.0	ug/L	250		102	80-120			
Lead	510		10.0	ug/L	500		102	80-120			
Nickel	512		10.0	ug/L	500		102	80-120			
Silver	251		10.0	ug/L	250		101	80-120			
Tin	515		10.0	ug/L	500		103	80-120			
Vanadium	257		10.0	ug/L	250		103	80-120			
Zinc	508		10.0	ug/L	500		102	80-120			

Matrix Spike (1G15007-MS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:29

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	596		10.0	ug/L	500	13.7	116	75-125			
Barium	1070		10.0	ug/L	500	483	118	75-125			
Beryllium	297		1.00	ug/L	250	0.784	119	75-125			
Cadmium	288		1.00	ug/L	250	0.360 U	115	75-125			
Chromium	601		10.0	ug/L	500	30.3	114	75-125			
Cobalt	612		10.0	ug/L	500	17.1	119	75-125			
Copper	351		10.0	ug/L	250	60.5	116	75-125			
Lead	688		10.0	ug/L	500	122	113	75-125			
Nickel	593		10.0	ug/L	500	26.0	113	75-125			
Silver	292		10.0	ug/L	250	1.91	116	75-125			
Tin	578		10.0	ug/L	500	5.59	115	75-125			
Vanadium	331		10.0	ug/L	250	36.6	118	75-125			
Zinc	903		10.0	ug/L	500	365	108	75-125			

Matrix Spike Dup (1G15007-MSD1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:31

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	610		10.0	ug/L	500	13.7	119	75-125	2	20	
Barium	1090		10.0	ug/L	500	483	121	75-125	2	20	
Beryllium	303		1.00	ug/L	250	0.784	121	75-125	2	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Matrix Spike Dup (1G15007-MSD1) Continued Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:31

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	294		1.00	ug/L	250	0.360 U	118	75-125	2	20	
Chromium	613		10.0	ug/L	500	30.3	117	75-125	2	20	
Cobalt	596		10.0	ug/L	500	17.1	116	75-125	3	20	
Copper	357		10.0	ug/L	250	60.5	119	75-125	2	20	
Lead	697		10.0	ug/L	500	122	115	75-125	1	20	
Nickel	606		10.0	ug/L	500	26.0	116	75-125	2	20	
Silver	297		10.0	ug/L	250	1.91	118	75-125	2	20	
Tin	584		10.0	ug/L	500	5.59	116	75-125	1	20	
Vanadium	337		10.0	ug/L	250	36.6	120	75-125	2	20	
Zinc	917		10.0	ug/L	500	365	111	75-125	2	20	

Post Spike (1G15007-PS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:33

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.06		0.0100	mg/L	1.00	0.0137	104	80-120			
Barium	1.53		0.0100	mg/L	1.00	0.483	105	80-120			
Beryllium	0.519		0.00100	mg/L	0.500	0.000784	104	80-120			
Cadmium	0.516		0.00100	mg/L	0.500	-0.00112	103	80-120			
Chromium	1.06		0.0100	mg/L	1.00	0.0303	103	80-120			
Cobalt	1.02		0.0100	mg/L	1.00	0.0171	100	80-120			
Copper	0.591		0.0100	mg/L	0.500	0.0605	106	80-120			
Lead	1.13		0.0100	mg/L	1.00	0.122	100	80-120			
Nickel	1.04		0.0100	mg/L	1.00	0.0260	101	80-120			
Silver	0.524		0.0100	mg/L	0.500	0.00191	104	80-120			
Tin	1.01		0.0100	mg/L	1.00	0.00559	101	80-120			
Vanadium	0.568		0.0100	mg/L	0.500	0.0366	106	80-120			
Zinc	1.36		0.0100	mg/L	1.00	0.365	100	80-120			

Batch 1G15018 - EPA 3005A

Blank (1G15018-BLK1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1G15018-BS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.8		2.00	ug/L	25.0		99	80-120			
Selenium	27.6		1.00	ug/L	25.0		111	80-120			
Thallium	25.3		1.00	ug/L	25.0		101	80-120			

Matrix Spike (1G15018-MS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:50

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15018 - EPA 3005A

Matrix Spike (1G15018-MS1) Continued Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:50

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.3		2.00	ug/L	25.0	0.220 U	89	75-125			
Selenium	30.7		1.00	ug/L	25.0	5.31	101	75-125			
Thallium	24.9		1.00	ug/L	25.0	0.110 U	100	75-125			

Matrix Spike Dup (1G15018-MSD1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:01

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.5		2.00	ug/L	25.0	0.220 U	90	75-125	0.8	20	
Selenium	29.7		1.00	ug/L	25.0	5.31	98	75-125	3	20	
Thallium	25.5		1.00	ug/L	25.0	0.110 U	102	75-125	2	20	

Post Spike (1G15018-PS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:05

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.1		2.00	ug/L	25.0	0.0820	92	80-120			
Selenium	28.7		1.00	ug/L	25.0	5.31	94	80-120			
Thallium	22.1		1.00	ug/L	25.0	-0.395	90	80-120			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: G10055.0
Address: P.O. Box 97	Project Name/Desc: Albemarle MSWLF SWs
City/ST/Zip: Garner, NC 27529	PO # / Billing Info
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jon Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C108361

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	Sample Comments
	SW-1	7/12/11	5:00	Grab	SW	4	X		X	
	SW-6	↓	10:10	↓	SW	4	X	X		
	SW-7	↓	10:30	↓	SW	4	X		X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		/ MESCO 7/14/11	15:00	Briana Gregory	7/14/11 15:00
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-807 1.7°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

www.encolabs.com

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, July 28, 2011

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G10008.0 (Blanks), Project Name/Desc: Albemarle Blanks
ENCO Workorder: C108360

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 14, 2011.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 23.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: EB **Lab ID: C108360-01** **Sampled: 07/14/11 14:50** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/10/12	07/15/11 09:28	7/18/2011 14:02
EPA 6020A	01/10/12	07/15/11 12:03	7/19/2011 16:27
EPA 7470A	08/11/11	07/15/11 09:26	7/15/2011 14:05
EPA 8260B	07/28/11	07/21/11 07:35	7/21/2011 20:34
SM18 4500-S D	07/21/11	07/18/11 08:41	7/18/2011 09:01
SM4500-CN/E	07/28/11	07/21/11 11:41	7/22/2011 18:35

Client ID: FB **Lab ID: C108360-02** **Sampled: 07/14/11 14:55** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	01/10/12	07/15/11 09:28	7/18/2011 14:04
EPA 6020A	01/10/12	07/15/11 12:03	7/19/2011 16:31
EPA 7470A	08/11/11	07/15/11 09:26	7/15/2011 13:49
EPA 8260B	07/28/11	07/21/11 07:35	7/22/2011 01:34

Client ID: TB **Lab ID: C108360-03** **Sampled: 07/12/11 14:00** **Received: 07/14/11 15:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	07/26/11	07/21/11 07:35	7/22/2011 02:04

www.encolabs.com

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: EB **Lab ID: C108360-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.91	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Carbon disulfide	2.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Selenium - Total	1.29	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Zinc - Total	3.82	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: FB **Lab ID: C108360-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	4.14	J	1	3.80	10.0	10	ug/L	EPA 6010C	

www.encolabs.com

ANALYTICAL RESULTS

Description: EB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-01
Sampled: 07/14/11 14:50
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/21/11 20:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/21/11 20:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/21/11 20:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/21/11 20:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/21/11 20:34	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/21/11 20:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/21/11 20:34	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/21/11 20:34	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/21/11 20:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/21/11 20:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/21/11 20:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/21/11 20:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Carbon disulfide [75-15-0] ^	**2.4**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/21/11 20:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/21/11 20:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/21/11 20:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/21/11 20:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/21/11 20:34	jkg	

www.encolabs.com

Description: EB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-01
Sampled: 07/14/11 14:50
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/21/11 20:34	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/21/11 20:34	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/21/11 20:34	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/21/11 20:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/21/11 20:34	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/21/11 20:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/21/11 20:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/21/11 20:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/21/11 20:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/21/11 20:34	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/21/11 20:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*99 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/21/11 20:34*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/21/11 20:34*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/21/11 20:34*	*jkg*	

www.encolabs.com

Description: EB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-01
Sampled: 07/14/11 14:50
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 14:05	NLH	

www.encolabs.com

Description: EB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-01
Sampled: 07/14/11 14:50
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:27	VLO	
Arsenic [7440-38-2] ^	**3.91**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	07/18/11 14:02	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/18/11 14:02	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/18/11 14:02	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/18/11 14:02	JDH	
Selenium [7782-49-2] ^	**1.29**	J	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:02	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:27	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	07/18/11 14:02	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/18/11 14:02	JDH	
Zinc [7440-66-6] ^	**3.82**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/18/11 14:02	JDH	

www.encolabs.com

Description: EB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-01
Sampled: 07/14/11 14:50
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0039	U	mg/L	1	0.0039	0.010	10	SM4500-CN/E	07/22/11 18:35	AJB	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM18 4500-S D	07/18/11 09:01	JOC	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: FB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-02
Sampled: 07/14/11 14:55
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 01:34	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 01:34	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/22/11 01:34	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 01:34	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 01:34	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 01:34	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 01:34	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/22/11 01:34	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/22/11 01:34	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 01:34	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 01:34	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 01:34	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 01:34	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 01:34	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/22/11 01:34	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 01:34	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/22/11 01:34	jkg	

www.encolabs.com

Description: FB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-02
Sampled: 07/14/11 14:55
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 01:34	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/22/11 01:34	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/22/11 01:34	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/22/11 01:34	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/22/11 01:34	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/22/11 01:34	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 01:34	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 01:34	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 01:34	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 01:34	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 01:34	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/22/11 01:34*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/22/11 01:34*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/22/11 01:34*	*jkg*	

www.encolabs.com

Description: FB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-02
Sampled: 07/14/11 14:55
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	07/15/11 13:49	NLH	

www.encolabs.com

Description: FB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-02
Sampled: 07/14/11 14:55
Sampled By: Jonathan Pfohl

Received: 07/14/11 15:00
Work Order: C108360

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	07/19/11 16:31	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Barium [7440-39-3] ^	1.00	U	ug/L	1	1.00	10.0	100	EPA 6010C	07/18/11 14:04	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	07/18/11 14:04	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	07/18/11 14:04	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	07/18/11 14:04	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	07/19/11 16:31	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	07/18/11 14:04	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	07/19/11 16:31	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	07/18/11 14:04	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	07/18/11 14:04	JDH	
Zinc [7440-66-6] ^	**4.14**	J	ug/L	1	3.80	10.0	10	EPA 6010C	07/18/11 14:04	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: TB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-03
Sampled: 07/12/11 14:00
Sampled By: ENCO

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	07/22/11 02:04	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,1-Dichloropropene [563-58-6] ^	0.66	U	ug/L	1	0.66	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,2,4-Trichlorobenzene [120-82-1] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/22/11 02:04	jkg	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,3-Dichlorobenzene [541-73-1] ^	0.79	U	ug/L	1	0.79	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
1,3-Dichloropropane [142-28-9] ^	0.67	U	ug/L	1	0.67	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
2,2-Dichloropropane [594-20-7] ^	0.56	U	ug/L	1	0.56	1.0	15	EPA 8260B	07/22/11 02:04	jkg	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	07/22/11 02:04	jkg	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	07/22/11 02:04	jkg	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/22/11 02:04	jkg	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	07/22/11 02:04	jkg	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	07/22/11 02:04	jkg	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	07/22/11 02:04	jkg	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	07/22/11 02:04	jkg	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	07/22/11 02:04	jkg	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	07/22/11 02:04	jkg	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/22/11 02:04	jkg	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	07/22/11 02:04	jkg	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	07/22/11 02:04	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	07/22/11 02:04	jkg	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
Dichlorodifluoromethane [75-71-8] ^	0.56	U	ug/L	1	0.56	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Hexachlorobutadiene [87-68-3] ^	0.88	U	ug/L	1	0.88	1.0	10	EPA 8260B	07/22/11 02:04	jkg	

www.encolabs.com

Description: TB
Matrix: Water
Project: Albemarle Blanks

Lab Sample ID: C108360-03
Sampled: 07/12/11 14:00
Sampled By: ENCO

Received: 07/14/11 15:00
Work Order: C108360

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	07/22/11 02:04	jkg	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	07/22/11 02:04	jkg	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	07/22/11 02:04	jkg	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	07/22/11 02:04	jkg	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Naphthalene [91-20-3] ^	0.46	U	ug/L	1	0.46	1.0	10	EPA 8260B	07/22/11 02:04	jkg	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	07/22/11 02:04	jkg	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	07/22/11 02:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	07/22/11 02:04	jkg	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	07/22/11 02:04	jkg	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	07/22/11 02:04	jkg	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	07/22/11 02:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*1G21007*	*EPA 8260B*	*07/22/11 02:04*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*1G21007*	*EPA 8260B*	*07/22/11 02:04*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*1G21007*	*EPA 8260B*	*07/22/11 02:04*	*jkg*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21007 - EPA 5030B_MS

Blank (1G21007-BLK1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,1-Dichloropropene	0.66	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.58	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,3-Dichlorobenzene	0.79	U	1.0	ug/L							
1,3-Dichloropropane	0.67	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2,2-Dichloropropane	0.56	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Dichlorodifluoromethane	0.56	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Hexachlorobutadiene	0.88	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21007 - EPA 5030B_MS

Blank (1G21007-BLK1) Continued Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
Naphthalene	0.46	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (1G21007-BS1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		121	75-133			
Benzene	23		1.0	ug/L	20.0		115	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			
Toluene	23		1.0	ug/L	20.0		114	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	75-115			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*69-110*			

Matrix Spike (1G21007-MS1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 12:03

Source: C108980-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.60 U	117	75-133			
Benzene	23		1.0	ug/L	20.0	0.68 U	114	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	102	83-117			
Toluene	22		1.0	ug/L	20.0	0.85 U	110	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.72 U	98	75-115			
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*69-110*			

Matrix Spike Dup (1G21007-MSD1) Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 12:33

Source: C108980-03

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1G21007 - EPA 5030B_MS

Matrix Spike Dup (1G21007-MSD1) Continued Prepared: 07/21/2011 07:35 Analyzed: 07/21/2011 12:33

Source: C108980-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.60 U	107	75-133	9	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	106	81-134	8	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.74 U	100	83-117	3	16	
Toluene	22		1.0	ug/L	20.0	0.85 U	109	71-118	1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.72 U	94	75-115	4	18	
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*101*	*69-110*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15005 - EPA 245.1

Blank (1G15005-BLK1) Prepared: 07/15/2011 09:26 Analyzed: 07/15/2011 13:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1G15005-BS1) Prepared: 07/15/2011 09:26 Analyzed: 07/15/2011 13:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.03		0.200	ug/L	5.00		101	85-115			

Matrix Spike (1G15005-MS1) Prepared: 07/15/2011 09:26 Analyzed: 07/15/2011 13:51

Source: C108360-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.12		0.200	ug/L	5.00	0.170 U	102	85-115			

Matrix Spike Dup (1G15005-MSD1) Prepared: 07/15/2011 09:26 Analyzed: 07/15/2011 13:55

Source: C108360-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.00		0.200	ug/L	5.00	0.170 U	100	85-115	2	15	

Post Spike (1G15005-PS1) Prepared: 07/15/2011 09:26 Analyzed: 07/15/2011 13:58

Source: C108360-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.65		0.200	ug/L	5.00	-0.0739	94	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Blank (1G15007-BLK1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:12

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Blank (1G15007-BLK1) Continued Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (1G15007-BS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	506		10.0	ug/L	500		101	80-120			
Barium	515		10.0	ug/L	500		103	80-120			
Beryllium	259		1.00	ug/L	250		104	80-120			
Cadmium	258		1.00	ug/L	250		103	80-120			
Chromium	510		10.0	ug/L	500		102	80-120			
Cobalt	529		10.0	ug/L	500		106	80-120			
Copper	255		10.0	ug/L	250		102	80-120			
Lead	510		10.0	ug/L	500		102	80-120			
Nickel	512		10.0	ug/L	500		102	80-120			
Silver	251		10.0	ug/L	250		101	80-120			
Tin	515		10.0	ug/L	500		103	80-120			
Vanadium	257		10.0	ug/L	250		103	80-120			
Zinc	508		10.0	ug/L	500		102	80-120			

Matrix Spike (1G15007-MS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:29

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	596		10.0	ug/L	500	13.7	116	75-125			
Barium	1070		10.0	ug/L	500	483	118	75-125			
Beryllium	297		1.00	ug/L	250	0.784	119	75-125			
Cadmium	288		1.00	ug/L	250	0.360 U	115	75-125			
Chromium	601		10.0	ug/L	500	30.3	114	75-125			
Cobalt	612		10.0	ug/L	500	17.1	119	75-125			
Copper	351		10.0	ug/L	250	60.5	116	75-125			
Lead	688		10.0	ug/L	500	122	113	75-125			
Nickel	593		10.0	ug/L	500	26.0	113	75-125			
Silver	292		10.0	ug/L	250	1.91	116	75-125			
Tin	578		10.0	ug/L	500	5.59	115	75-125			
Vanadium	331		10.0	ug/L	250	36.6	118	75-125			
Zinc	903		10.0	ug/L	500	365	108	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15007 - EPA 3005A

Matrix Spike Dup (1G15007-MSD1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:31

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	610		10.0	ug/L	500	13.7	119	75-125	2	20	
Barium	1090		10.0	ug/L	500	483	121	75-125	2	20	
Beryllium	303		1.00	ug/L	250	0.784	121	75-125	2	20	
Cadmium	294		1.00	ug/L	250	0.360 U	118	75-125	2	20	
Chromium	613		10.0	ug/L	500	30.3	117	75-125	2	20	
Cobalt	596		10.0	ug/L	500	17.1	116	75-125	3	20	
Copper	357		10.0	ug/L	250	60.5	119	75-125	2	20	
Lead	697		10.0	ug/L	500	122	115	75-125	1	20	
Nickel	606		10.0	ug/L	500	26.0	116	75-125	2	20	
Silver	297		10.0	ug/L	250	1.91	118	75-125	2	20	
Tin	584		10.0	ug/L	500	5.59	116	75-125	1	20	
Vanadium	337		10.0	ug/L	250	36.6	120	75-125	2	20	
Zinc	917		10.0	ug/L	500	365	111	75-125	2	20	

Post Spike (1G15007-PS1) Prepared: 07/15/2011 09:28 Analyzed: 07/18/2011 13:33

Source: C108557-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.06		0.0100	mg/L	1.00	0.0137	104	80-120			
Barium	1.53		0.0100	mg/L	1.00	0.483	105	80-120			
Beryllium	0.519		0.00100	mg/L	0.500	0.000784	104	80-120			
Cadmium	0.516		0.00100	mg/L	0.500	-0.00112	103	80-120			
Chromium	1.06		0.0100	mg/L	1.00	0.0303	103	80-120			
Cobalt	1.02		0.0100	mg/L	1.00	0.0171	100	80-120			
Copper	0.591		0.0100	mg/L	0.500	0.0605	106	80-120			
Lead	1.13		0.0100	mg/L	1.00	0.122	100	80-120			
Nickel	1.04		0.0100	mg/L	1.00	0.0260	101	80-120			
Silver	0.524		0.0100	mg/L	0.500	0.00191	104	80-120			
Tin	1.01		0.0100	mg/L	1.00	0.00559	101	80-120			
Vanadium	0.568		0.0100	mg/L	0.500	0.0366	106	80-120			
Zinc	1.36		0.0100	mg/L	1.00	0.365	100	80-120			

Batch 1G15018 - EPA 3005A

Blank (1G15018-BLK1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (1G15018-BS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.8		2.00	ug/L	25.0		99	80-120			
Selenium	27.6		1.00	ug/L	25.0		111	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1G15018 - EPA 3005A

LCS (1G15018-BS1) Continued Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	25.3		1.00	ug/L	25.0		101	80-120			

Matrix Spike (1G15018-MS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 14:50

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.3		2.00	ug/L	25.0	0.220 U	89	75-125			
Selenium	30.7		1.00	ug/L	25.0	5.31	101	75-125			
Thallium	24.9		1.00	ug/L	25.0	0.110 U	100	75-125			

Matrix Spike Dup (1G15018-MSD1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:01

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.5		2.00	ug/L	25.0	0.220 U	90	75-125	0.8	20	
Selenium	29.7		1.00	ug/L	25.0	5.31	98	75-125	3	20	
Thallium	25.5		1.00	ug/L	25.0	0.110 U	102	75-125	2	20	

Post Spike (1G15018-PS1) Prepared: 07/15/2011 12:03 Analyzed: 07/19/2011 15:05

Source: C108359-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.1		2.00	ug/L	25.0	0.0820	92	80-120			
Selenium	28.7		1.00	ug/L	25.0	5.31	94	80-120			
Thallium	22.1		1.00	ug/L	25.0	-0.395	90	80-120			

Classical Chemistry Parameters - Quality Control

Batch 1G18002 - NO PREP

Blank (1G18002-BLK1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (1G18002-BS1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.40		0.10	mg/L	0.401		99	80-120			

Matrix Spike (1G18002-MS1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Source: C108023-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.14		0.10	mg/L	0.401	0.010 U	36	80-120			QM-05

Matrix Spike Dup (1G18002-MSD1) Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 1G18002 - NO PREP

Matrix Spike Dup (1G18002-MSD1) Continued Prepared: 07/18/2011 08:41 Analyzed: 07/18/2011 09:01

Source: C108023-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.15		0.10	mg/L	0.401	0.010 U	38	80-120	6	25	QM-05

Batch 1G21010 - Same

Blank (1G21010-BLK1) Prepared: 07/21/2011 11:41 Analyzed: 07/22/2011 17:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0039	U	0.010	mg/L							

LCS (1G21010-BS1) Prepared: 07/21/2011 11:41 Analyzed: 07/22/2011 18:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.13		0.010	mg/L	0.150		90	90-110			

Matrix Spike (1G21010-MS1) Prepared: 07/21/2011 11:41 Analyzed: 07/22/2011 18:23

Source: C106563-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.049		0.010	mg/L	0.150	0.0044	30	90-110			QM-05

Matrix Spike Dup (1G21010-MSD1) Prepared: 07/21/2011 11:41 Analyzed: 07/22/2011 18:25

Source: C106563-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.073		0.010	mg/L	0.150	0.0044	46	90-110	39	10	QM-05, QM-11

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: G10008.0 (Blanks)
Address: P.O. Box 97	Project Name/Desc: Albemarle Blanks
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C108360

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 2 App. II	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total SM4500-CN E	Hg	Sulfide SM4500-S D						Sample Comments
	EB	7/14/11	7/14/11	14:50	WA	6	X	X	X	X	X						
	FB		↓	14:55	WA	4	X	X		X							
	TB	ENCO Field			WA	2	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: /MESCO 15:00	Date/Time: 7/14/11	Received By: Briana Gregory	Date/Time: 7/14/11 15:00
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-807 1.7°C C-264		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Hoine, NC

Project: Albemarle Subtitle D Lined MSWLF, Ph. 1 & 2

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) 7/12/10	Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-13	7/13/11	12:08	9.42	9.45	App II	2	DB	Y	Y	21	NR	1.9	-62	6.20	15.7	651	335	C	NR
MW-14	7/12/11	3:40	5.09		App I	6	DB	N	Y	24.5		1.7	41	6.18	15.0	594	274	ST	
MW-15	7/12/11	4:45	5.67		App I	6	DB	N	Hasp replaced Y	23.5		0.9	-10	6.38	15.0	394	195	ST	
MW-16S	7/13/11	10:15	5.34		App II	1	DB	Y	Y	9		0.7	4	6.57	17.4	440	219	C	
MW-16D	7/13/11	10:40	4.19	4.21	App II	5	DB	N	Y	20		1.0	25	6.11	15.8	372	185	C	
MW-17	7/12/11	12:00	5.95	5.95	App I		DB	Y	Y	21.7		1.3	-90	6.60	15.9	236	117	C	
MW-18	7/12/11	11:00	9.35	9.35	App I	8	DB	N	New Path made Y	27		1.6	-19	6.83	15.7	96	43	C	
MW-19	7/13/11	9:10	22.64	22.64	App II	5	PD DB	Y	Y	49.5		4.8	97	6.61	17.5	677	338	C	
MW-22	7/12/11	2:00	10.80		App I	5	DB	Y	New Path Made Y	20		2.6	134	5.77	16.3	200	99	MT	
MW-23	7/13/11	11:30	7.97	7.99	App II	6	DB	N	Y	17		1.3	12	5.92	16.0	545	272	C	
MW-26	7/12/11	2:40	33.54	33.54	App I	2	DB	Y	Y	38.67		3.8	172	6.23	16.8	101	50	MT	
MW-27	7/12/11	1:35	4.83	4.83	App I	10	PD DB	N	Rescrewed Tag Y	22.91		2.0	149	6.04	18.7	395	197	C	
SW-2	7/12/11	3:05	-	-	App I	-		-	-	-		6.3	53	6.98	26.5	204	102	C	-
LAGOON	7/14/11	8:10	-	-	Leachate	-		-	-	-									-

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained

Sampling Data Sheet

Municipal Services Engineering Company — Garner, NC — Boone, NC

Project: Albemarle MSWLF- Surface Waters Between Closed & Lined

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) 1/ /10	Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
SW-1	7/12/11	5:00	-	-	DM	-	D B	-	-	-	NR	6.9	91	7.11	29.2	155	77	C	-
SW-6		10:10	-	-	DM + T.A	-	P	-	-	-	NR	7.1	97	7.08	30.1	144	67	C	-
SW-7		10:30	-	-	DM	-		-	-	-	NR	7.2	103	7.10	29.8	138	61	C	-

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained

Appendix C
Well Abandonment Record(s)

WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2663

1. WELL CONTRACTOR:

Derry L Huneycutt
Well Contractor (Individual) Name

Derry's Well Drilling Inc.
Well Contractor Company Name

44283-A NC 24/27/73
Street Address

Albemarle NC 28002
City or Town State Zip Code

(704) 982-9070
Area code Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) P2-8

STATE WELL PERMIT # (if applicable)

COUNTY WELL PERMIT # (if applicable)

DWQ or OTHER PERMIT # (if applicable)

WELL USE (Check applicable use) ☐ **Monitoring** ☐ **Residential**

☐ **Municipal/Public** ☐ **Industrial/Commercial** ☐ **Agricultural**

☐ **Recovery** ☐ **Injection** ☐ **Irrigation**

☑ Other (list use) Temp. piezometer for Ph 2 hydrogeologic study

3. WELL LOCATION:

COUNTY Stanley QUADRANGLE NAME Albemarle

NEAREST TOWN: Albemarle

40592-B Stony Gap Rd. 28002

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☑ Slope ☐ Valley ☐ Flat ☐ Ridge ☐ Other

(Check appropriate setting)

LATITUDE 36 ° ' " DMS **OR** 33.578112 DD

LONGITUDE 75 ° ' " DMS **OR** 85.563072 DD

Latitude/longitude source: ☑ GPS ☐ Topographic map

(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a :
(If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable)

NAME OF FACILITY City of Albemarle Subtitle D MSWLF, Ph 2

STREET ADDRESS 40592-B Stony Gap Road

Albemarle NC 28002
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Mr. Mike Lambert (Public Works Director)

STREET ADDRESS 704 Arlington Ave. Albemarle NC 28002

5. WELL DETAILS:

a. Total Depth 27.00 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): 6.21 ft.

Measuring point is 3.15 ft. above land surface.

6. CASING:

	Length	Diameter
a. Casing Depth (if known):	12.00 ft.	2 in.
b. Casing Removed:	Stickup ft.	2 in.

7. DISINFECTION: na

(Amount of 65%75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement 65 lb.
Water 4 gal.

Sand Cement

Cement lb.
Water gal.

Bentonite

Bentonite lb.

Type: ☐ Slurry ☐ Pellets

Water gal.

Other

Type material

Amount

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

~~Pressure tremie cement grout from bottom to top~~

10. WELL DIAGRAM : Draw a detailed sketch of thwell on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materialsused

11. DATE WELL ABANDONED 7/13/11

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Derry L Huneycutt 8-4-11

SIGNATURE OF CERTIFIED WELL CONTRACTOR **DATE**

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL **DATE**

(The private well owner must be an individual wpersonallyabandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Derry L Huneycutt

PRINTED NAME OF PERSON ABANDONING THE WE LL

Submit a copy to the owner and the original to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-1617, Phone : (919) 807-6300

Form GW-30
Rev. 5/10